

RESUME

1. PERSONAL



Full Name: **Dr. Nasreen Bano Muslim Shaikh**
Permanent Address: 201A, wing A, Fortune Mirador Society,
Pashan-Sus Road, Baner, Pune-411045
Address of Correspondence: Fl. No. 201, New Staff Quarters, G. M. Vedak
College of Science, Tala-Raigad 402111
E-mail Address: snasreenbano@yahoo.in
snasreenbano19@gmail.com
Contact No.: 8888388325
9834431808
Gender: Female
Date of Birth: 19.09.1987
Nationality: India

2. EDUCATIONAL QUALIFICATION:

Sr. No.	Examination	Board/University	Year of Passing	Class / Division	Percentage
1.	Ph.D.	Dr. Babasaheb Ambedkar Technological University, Lonere	Dec 2019	---	---
2.	NET (JRF)	CSIR-UGC	2010	84 th Rank	
3.	M.Sc.	Savitribai Phule Pune University, Pune	2010	1st Class with Distinction (1st in order of merit at University of Pune)	84.95
4.	B.Sc.	Savitribai Phule Pune University, Pune	2008	1st Class with Distinction (7 th in order of merit at University of Pune)	90.89
5.	H.S.C.	Maharashtra State Board, Pune	2005	1st Class with Distinction	86.33
6.	S.S.C.	Maharashtra State Board, Pune	2003	1st Class with Distinction	89.46

3. ADDITIONAL EDUCATIONAL QUALIFICATION:

S.No.	Examination	Board/University	Year of Passing	Class / Division	Percentage
1.	MS-CIT	Maharashtra State Board of Technical Education	2010	---	75/100

2. RECOGNITION / AWARDS

Sr. No.	Fellowship/Awards/Rank	Class	University/Foundation	Year
1.	TEQIP-II Fellowship	Ph.D.	Dr. Babasaheb Ambedkar Technological University, Lonere	11 th September 2015 to 31 st December 2016
2.	3 Gold Medals 1. Late Principal Ranglar Gopalkrishna Laxman Chandratrya Gold Medal 2. Damodar Ganesh Ramdasi Gold Medal 3. Pandit G. M. Joshi Memorial Gold Medal	M.Sc.	Savitribai Phule Pune University, Pune	2010
3.	Malhotra Weikfield Foundation scholarship	M.Sc.	Malhotra Weikfield Foundation	2008-2009 and 2009-2010
4.	1 st Rank	M.Sc.	Savitribai Phule Pune University, Pune	2010
5.	7 th Rank	B.Sc. (Mathematics) Examination	Savitribai Phule Pune University, Pune	2008
6.	9 th Rank	B.Sc. Examination	Savitribai Phule Pune University, Pune	2008

5. EXPERIENCE:

	Institute	Designation	Period	Subjects/Classes Taught	Duration
1.	G. M. Vedak College of Science, Tala, Raigad(MH)(Government Aided)	Assistant Professor (Academic Level-10_	9 th October 2017 to till date	Mathematics	5.11 years
2.	Dr. Babasaheb Ambedkar Technological University, Lonere.	Junior Research Fellow	11 th September 2015 to 8 th October 2017	UG: B.Tech Engineering Mathematics-III	1.8 years
3.	Abeda Inamdar Senior College, Pune	Assistant Professor	July 2010 to September 2015	U.G.:B.Sc. P.G.:M.Sc. (Savitribai Phule Pune University Approval)	5 years

6. AREA OF RESEARCH

Fluid Dynamics (Boundary Layer Theory)

Completed Ph.D. under the guidance of Dr. B. B. Singh, Professor and Head, Department of Mathematics,

Dr. Babasaheb Ambedkar Technological University, Lonere, Raigad.

Title of the PhD Thesis:

“ON SOLUTIONS OF LAMINAR SIMILARITY BOUNDARY LAYER EQUATIONS OF FLUID FLOWS”

Ph.D. Awarded: December 2019

Brief Sketch of Thesis:

The Thesis consists of seven chapters:

The Chapter I is introductory in nature.

The Chapter II deals with the MHD slip flows of UCM fluids above porous stretching sheets.

The Chapter III deals with the Flow and heat transfer of a nanofluid over a non-linearly stretching/shrinking sheet in presence of thermal radiation, velocity and thermal slips .

The Chapter IV deals with MHD heat transfer flow of Casson fluid with velocity and thermal slips over a stretching wedge in the presence of thermal radiation.

The Chapter V deals with MHD Hiemenz flow in a porous medium with thermal radiation, velocity and thermal slips effects.

The Chapter VI deals with MHD stagnation-point flow and heat transfer over an exponentially stretching/shrinking vertical permeable cylinder.

The Chapter VII deals with Coupled heat and mass transfer by natural convection from a radiating vertical thin needle in a porous medium.

7. LIST OF PUBLICATIONS

a. PAPERS PUBLISHED IN JOURNALS

1. **Nasreen Bano** and B. B.Singh, An integral treatment for coupled heat and mass transfer by natural convection from a radiating vertical thin needle in a porous medium, *International Communications in Heat and Mass Transfer*, Vol. 84(2017), pp. 41-48. (Science Citation Index, Thomson Reuters Impact Factor: 3.718, ISSN 0735-1933)
2. S.R. Sayyed, B.B. Singh and **Nasreen Bano**, An integral treatment for dissipative boundary layer flow along a radiating vertical surface convection in a porous medium, *Diffusion Foundations* 11(2017) 191-207.(Peer reviewed and UGC approved)
ISSN: 2296-3642 <https://doi.org/10.4028/www.scientific.net/df.11.191>
3. S.R. Sayyed, B.B. Singh and **Nasreen Bano**, Radiative MHD stagnation-point flow with heat transfer past a permeable stretching/shrinking sheet in a porous medium, *Diffusion Foundations*, 11(2017) 110-128.(Peer reviewed and UGC approved)
ISSN: 2296-3642 <https://doi.org/10.4028/www.scientific.net/df.11.110>
4. S.R. Sayyed, B.B. Singh and **Nasreen Bano**, Analytical solution of MHD slip flow past a constant wedge within a porous medium using DTM-Pade, *Applied Mathematics and Computation*, 321(2018) 472-482. (SCI and Scopus indexed and UGC approved)(Thompson Reuter Impact Factor-4.091)
ISSN: 0096-3003 <https://doi.org/10.1016/j.amc.2017.10.062>
5. **Nasreen Bano**, B. B. Singh and S.R. Sayyed, Homotopy analysis for MHD Hiemenz flow in a porous medium with thermal radiation, velocity and thermal slips effects, *Frontiers in Heat and Mass Transfer (FHMT)*, 10(2018) 14(1-9). (WoS/Scopus indexed and UGC approved)
ISSN: 2151-8629 <https://doi.org/10.5098/hmt.10.14>
6. **Nasreen Bano**, B. B. Singh and S.R. Sayyed, DTM-Padé treatment for MHD slip flows of UCM fluids above porous stretching sheets, *Special Topics & Reviews in Porous*

Media — An International Journal, 9(4) (2018) 379-397. (Scopus Indexed and UGC approved)

ISSN: 2151-4798 <https://doi.org/10.1615/specialtopicsrevporousmedia.2018022134>

7. **Nasreen Bano**, O.D. Makinde, B.B. Singh and S.R. Sayyed, Radiation effect on heat and mass transfer by natural convection from a horizontal surface embedded in a porous medium, Diffusion Foundation, 1(2018) 140-157. (Peer reviewed and UGC approved)
ISSN: 2296-3642 <https://doi.org/10.4028/www.scientific.net/df.16.140>
8. **Nasreen Bano**, B.B. Singh and S.R. Sayyed, MHD heat transfer flow of Casson fluid with velocity and thermal slips over a stretching wedge in the presence of thermal radiation , Diffusion Foundation, 26(2020) 1-22. (Peer reviewed and UGC approved)
ISSN: 2296-3642 <https://doi.org/10.4028/www.scientific.net/df.26.1>
9. **Nasreen Bano**, B.B. Singh and S.R. Sayyed, MHD stagnation point flow and heat transfer over an exponentially stretching/shrinking vertical permeable cylinder, Diffusion Foundation, 26(2020) 23-38. (Peer reviewed and UGC approved)
ISSN: 2296-3642 <https://doi.org/10.4028/www.scientific.net/df.26.23>
10. S.R. Sayyed, B. B. Singh, O. D. Makinde and **Nasreen Bano**, DTM-BF technique for flow and heat transfer of a nanofluid over a non-linearly stretching/shrinking sheet in presence of thermal radiation and partial slip, Latin American Applied Research, 50(3)(2020) 185-195. (Science Citation Index)
ISSN: 1851-8796
11. **Nasreen Bano**, B. B. Singh, O. D. Makinde and S.R. Sayyed, DTM-Pade approach to MHD slip flow and heat transfer over a radially stretching sheet with thermal radiation, Latin American Applied Research, 50(3)(2020) 175-184. (Science Citation Index)
ISSN: 1851-8796
12. **Nasreen Bano** and S. R. Sayyed, Falkner-Skan Boundary Layer Flow over a Static Wedge, International Journal of Advanced Research in Science, Communication and Technology, 3(3)(2023) 114-120.
ISSN(Online): 2581-9429 <https://doi.org/10.48175/IJARSCT-8124>

b. PAPERS PUBLISHED IN PROCEEDINGS

1. B. B. Singh, **Nasreen Bano** and Sayyed S. R., Asymptotic integration of solutions of MHD flow equations with heat and mass transfer due to point sink, Proceedings of the Mathematical Society (BHU), Varanasi, Vol. 31(2015), pp. 1-6. (ISSN: 0970-7080).
2. B. B. Singh, **Nasreen Bano** and S.R. Sayyed, Asymptotic integration of the solutions of the unsteady boundary layer equations with a magnetic field, Proceedings of the Mathematical Society (BHU), Varanasi, Vol. 31(2015), pp. 7-13 (ISSN 0970-7080).

3. **Nasreen Bano**, B. B. Singh and S.R. Sayyed, MHD slips flow and heat transfer of a radiating viscous fluid over a radially stretching sheet” in the Conference Proceeding of 44th National Conference on Fluid Mechanics and Fluid Power(FMFP 2017) and accepted for publication in journal Recent Patents in Mechanical Engineering (Scopus indexed and in UGC list).
4. S.R. Sayyed, B.B. Singh and **Nasreen Bano**, Dissipative effect on heat and mass transfer by natural convection over a radiating needle in a porous medium” in the Conference Proceeding of International Conference on Numerical Heat Transfer and Fluid Flow (NHTFF-2018) and accepted for publication in Lecture Notes in Mechanical Engineering(peer reviewed journal in UGC list).
5. S.R. Sayyed, B.B. Singh and **Nasreen Bano**, MHD stagnation-point dissipative flow in a porous medium with Joule heating and second-order slip in the Conference Proceeding of 3rd International Conference on Computing, Communication and Signal Processing (ICCASP-2018) and accepted for publication in Springer AISC (Advances in Intelligent Systems and Computing) Series. (ISI and Scopus indexed and in UGC list).
6. **Nasreen Bano**, B. B. Singh and S.R. Sayyed, MHD flow with heat and mass transfer over a radiating cone due to a point sink in presence of partial and solutal slips in the Conference Proceeding of 3rd International Conference on Computing, Communication and Signal Processing (ICCASP-2018) and accepted for publication in Springer AISC(Advances in Intelligent Systems and Computing) Series. (ISI and Scopus indexed and in UGC list).

c. BOOK/MONOGRAPH PUBLISHED

1. **Nasreen Bano** and Dr. B. B. Singh, On Conceptual Study of Boundary Layer Theory, LAMBERT Academic Publishing (LAP), Germany 2016. (ISBN: 978-3-659-88256-2)
2. S.R. Sayyed, B.B. Singh and **Nasreen Bano**, On the Fundamental Concepts of Fluid Flows, LAP Lambert Academic Publishing, Mauritius 2018. (ISBN: 978-613-9-89030-9)

d. BOOK CHAPTER

1. S.R. Sayyed, B.B. Singh and **Nasreen Bano**, Dissipative effect on heat and mass transfer by natural convection over a radiating needle in a porous medium, Numerical heat transfer and fluid flow, *Lectures Notes in Mechanical Engineering Series*, Springer, 497-504, 2019. (Scopus Indexed and UGC approved) **ISBN:** 978-981-13-1902-0 **ISSN:** 2195-4356 https://doi.org/10.1007/978-981-13-1903-7_57
2. S.R. Sayyed, B.B. Singh and **Nasreen Bano**, MHD stagnation-point dissipative flow in a porous medium with Joule heating and second-order slip, Computing, Communication and Signal Processing, *Advances in Intelligent Systems and Computing Series*, Springer, 810(2019) 601-609. (Scopus Indexed and UGC approved) **ISBN:** 978-981-13-1513-8 https://doi.org/10.1007/978-981-13-1513-8_61
3. **Nasreen Bano**, B. B. Singh and S.R. Sayyed, MHD flow with heat and mass transfer over a radiating cone due to a point sink in presence of partial and solutal slips Computing, Computing, Communication and Signal Processing, *Advances in Intelligent*

Systems and Computing Series, Springer, 810(2019) 591-599. (Scopus Indexed and UGC approved)

ISBN: 978-981-13-1513-8 https://doi.org/10.1007/978-981-13-1513-8_60

e. PAPERS UNDER REVIEW

1. **Nasreen Bano**, B. B. Singh and S.R. Sayyed, DTM-Pade treatment of MHD slips flow and heat transfer of a radiating viscous fluid over a radially stretching sheet, *Advances in Mathematical Physics*(WoS and Scopus indexed)(in review).
2. **Nasreen Bano**, B. B. Singh and S.R. Sayyed, DTM-BF technique for flow and heat transfer of a nanofluid over a non-linearly stretching/shrinking sheet in presence of thermal radiation and partial slip, *Applied Mathematics and Computations*, (SCI and UGC approved)

8. ORIENTATION/INDUCTION/REFRESHER/STTP/FDP/TRAINING PROGRAMME ATTENDED

1. Attended an STTP-2016 at SVNIT Surat titled “**Nonlinear Analysis and Computations Using MATLAB, Mathematica, Maple, LINGO and CPLEX with Applications in Engineering Sciences**” during the period of 30th September 2016 to 4th October 2016.
2. Attended two weeks Faculty Development Programme on “**MANAGING ONLINE CLASSES and CO-CREATING MOOCS : 2.0**” organized by Teaching Learning Centre, Ramanujan College, University of Delhi, Delhi during the period 18th May to 3rd June 2020.
3. Attended four weeks Induction/Orientation Programme for “**Faculty in Universities/ Colleges/ Institutes of Higher Education**” organized by Teaching Learning Centre, Ramanujan College, University of Delhi, Delhi during the period 4th June to 1st July 2020.
4. Attended two weeks Faculty Development Programme on “**Advanced Concepts For Developing MOOCS**” organized by Teaching Learning Centre, Ramanujan College, University of Delhi, Delhi during the period 02nd July to 17th July 2020.
5. Attended two weeks Refresher Course in “**MATHEMATICS**” organized by Department of Mathematics, Ramanujan College, Teaching Learning Centre, Ramanujan College, University of Delhi, Delhi during the period 16th March to 30th March 2021.
6. Attended two weeks Inter-Disciplinary Refresher Course/Faculty Development Programme on “**Managing Online Classes & Co-creating MOOCS 6.0**” organized by Teaching Learning Centre, Ramanujan College, University of Delhi, Delhi during the period 5th July to 19th July 2021.
7. Attended **MS-DEED Level 1 Online Workshop on Introduction to Innovative Pedagogies for UG Teachers** at Indian Institute of Science Education and Research Pune during the period 11th to 13th January 2022.

8. Attended two weeks Refresher Course in “**MATHEMATICS**” organized by Department of Mathematics, Ramanujan College, Teaching Learning Centre, Ramanujan College, University of Delhi, Delhi during the period 29th April to 13th May 2023.

9. CONFERENCES/SEMINAR/WORKSHOP ATTENDED

1. Attended and presented a paper entitled “DTM-Pade` analysis of Falknar-Skan boundary layer flow over a static wedge” in the “**International Conference on Computation and Advance Sciences (ICASC)**” at IIT, Madras during November 28-30, 2016.
2. Attended and presented a paper entitled “An integral treatment for coupled heat and mass transfer by natural convection from a paraboloid in a radiating fluid saturated porous medium” in the “**International Conference on Communications and Signal Processing (ICCASP)**” at DBATU, Lonere during December 26-27, 2016.
3. Attended and presented a paper entitled “Integral treatment for heat and mass transfer by natural convection from a horizontal surface in a radiating darcian fluid” in “**International Conference on Current Trends in Engineering, Science and Technology (ICCTEST)**” at Don Bosco Institute of Technology, Bangalore on 5th January, 2017.
4. Attended and presented a paper entitled “Asymptotic integration of the solution of unsteady boundary layer equations with magnetic field” in the “**National Conference on Mathematical Modeling and its Applications in Engineering and Sciences**” at Government College of Engineering, Karad during 03-04 February, 2017.
5. Attended and presented a paper entitled “Analysis of MHD slip flows of UCM fluids above porous stretching sheets” in the “**National Seminar on Differential Equations and Dynamical Systems - 2017**” at Department of Mathematics, Shivaji University, Kolhapur during 27-28 February, 2017.
6. Attended and presented a paper entitled “MHD flow with heat and mass transfer over a radiating cone due to a point sink in presence of partial and solutal slips” in the “**3rd International Conference on Communications and Signal Processing (ICCASP2018)**” at DBATU, Lonere during 26-27 January, 2018.
7. Attended “**Curriculum Development Workshop in Mathematics**” at Dr. Babasaheb Ambedkar Technological University, Lonere on 27th November, 2019.
8. Attended and presented a paper entitled “DTM-Pade` treatment of flow over a constant wedge with slip velocity” in the **National Conference on Multi-Disciplinary Research and Practices-2020** at G. M. Vedak College of Science, Tala-Raigad, Maharashtra on 15th February 2020.

10. ADMINISTRATIVE RESPONSIBILITY

Sl. No.	Responsibility	Position
1.	National Service Scheme (NSS)	Programme Officer
2.	Prospectus Committee	In-charge
3.	Internal Complaint Committee (ICC)	Presiding Officer
4.	Women Development Cell (WDC)	Member
5.	Examination Committee	Member
6.	Admission Committee	Member
7.	Time Table Committee	Member
8.	Cultural Committee	Member

11. NOTABLE WORK

1. Qualified and Appeared for an interview for the post of Lecturer in Mathematics, Government Polytechnic College, through Maharashtra Public Service Commission (MPSC) for the Advertisement No. 19/2013
2. Appeared for an interview for the post of Assistant Professor in Mathematics, Government Engineering College, Maharashtra Engineering College Teacher Service Group-A through Maharashtra Public Service Commission (MPSC) for the Advertisement No. 121/2014.

12. COMPUTER KNOWLEGE

1. Basic knowledge of MS-Word, Excel and Power-Point.
2. LaTeX Software
(LaTeX is a high-quality typesetting system; it includes features designed for the production of technical and scientific documentation)
3. MATHEMATICA software
(Wolfram Mathematica (usually termed Mathematica) is a modern technical computing system spanning all areas of technical computing - including neural networks, machine learning, image processing, geometry, data science, visualizations, and others.)
4. Basic Python Language

13. REFERENCE

1. **Dr. B. B. Singh**
Professor & Head
Department of Mathematics
Dr. Babasaheb Ambedkar Technological University, Lonere-402103
Email id: bbsingh@dbatu.ac.in
Mobile No.:9422126078
9483051456
2. **Dr. S. B. Bhalekar**

Associate Professor
Department of Mathematics
University of Hyderabad, Hyderabad
Email id: sachinbhalekar@uohyd.ac.in
Mobile No.: 9922613556

DECLARATION:

The above information is true to the best of my knowledge and belief.

Place: Pune

Date:

(Nasreen Bano Muslim Shaikh)