CURRICULUM VITAE

Dr NOOR-E-MISBAH

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Objectives

Secure a responsible career opportunity to fully utilize my skills and passion to produce quality research work, and work for the overall development of the institute whilst escalating my knowledge and skills.

Experience

- *Working as a Guest Faculty at Department of Mathematics, University Visvesvaraya College of Engineering, Bangalore University Bangalore-560 004, dated August-2019 till date.*
- *Working as a Guest Faculty at Department of Mathematics, Bengaluru City University, Bengaluru – 560 004, dated December-2022 till date.*

Education

- *2019 | Ph. D in Applied Mathematics*

  Bengaluru City University, Bengaluru.

- *2018 | Masters of Science in Mathematics*

  Central College Campus, Bangalore University, Bangalore. ***[First Class Exemplary – CGPA 8.17]****.*

- *Qualified KSET – 2018 (held on 31st December 2017).*

- *2016 | Bachelor of Science in Physics, Chemistry and Mathematics*

  B.M.S College for Women, Bangalore. ***[First Class – 78.5 %]****.*

- *2013 | PUC in Physics, Chemistry, Mathematics and Biology*

  B.M.S College for Women, Bangalore. ***[First Class – 74.66%]****.*

- *2011 | SSLC*

  Jame-Ul-Uloom, Bangalore. ***[Distinction – 91.20 %]****.*

Research Achievements

Publications

- *Ramesh B. Kudenatti,* ***Noor-E-Misbah*** *and Bharathi M. C., " A numerical study on boundary layer flow of Carreau fluid and forced convection heat transfer with viscous dissipation and generalized thermal conductivity", Mathematics and Computers in Simulations, (2023),* ***208****, 619-636.* ***(IF: 4.6, Q1)***
  DOI : https://doi.org/10.1016/j.matcom.2023.01.026.

- *Ramesh B. Kudenatti,* ***Noor-E-Misbah****, "The onset of instability in a hydromagnetic channel flow of Casson fluid: the accurate solutions",* ***Applied*** *mathematics and Computation, (2023),* ***436****, 127475 (1-14).* ***(IF:4.397****, Q1)*
  DOI: https://doi.org/10.1016/j.amc.2022.127475

- *Shashi Prabha Gogate S., Bharathi M. C.,* ***Noor-E-Misbah*** *and Ramesh B. Kudenatti, "A computational study of three-dimensional laminar boundary layer flow and forced convective heat transfer in a porous medium",* ***Archive of Applied*** *Mechanics, (2023),* ***93****, 551-569.* ***(IF:2.8****, Q1)*
  DOI: https://doi.org/10.1007/s00419-022-02285-0

- *Shashi Prabha Gogate S.,* ***Noor-E-Misbah****, Bharathi M. C. and Ramesh B. Kudenatti, "Local thermal non-equillibrium effects in forced convection stagnation boundary layer flows in porous medium: the Chebyshev collocation method for coupled system",* ***Engineering*** *with Computers, (2023), 39, 1249-1266.* ***(IF:8.7,*** *Q1)*
  DOI: https://doi.org/10.1007/s00366-021-01492-7.

- *Ramesh B. Kudenatti,* ***Noor-E-Misbah*** *and Bharathi M. C., "Stability of hydromagnetic boundary layer flow of non-Newtonian power-law fluid flow over a moving wedge", Engineering with Computers, (2022),* ***38****, 1107-1126.* ***(IF:8.7, Q1)***
  DOI: https://doi.org/10.1007/s00366-020-01094-9.

- *Ramesh B. Kudenatti,* ***Noor-E-Misbah****, " Hydrodynamic flow of non-Newtonian power-law fluid past a moving wedge or a stretching sheet: a unified computational approach", Scientific Reports, (2020),* ***10****(1), 9445.* ***(IF: 4.996, Q1)***
  DOI : https://doi.org/10.1038/s41598-020-66106-6.

- *Ramesh B. Kudenatti,* ***Noor-E-Misbah*** *and Bharathi M. C., " Linear stability of momentum boundary layer flow and heat transfer over a moving wedge", ASME Journal of Heat Transfer, (2020),* ***142****(6), 061804.* ***(IF: 2.1, , Q1)***
  DOI : https://doi.org/10.1115/1.4046645.

- *Ramesh B. Kudenatti,* ***Noor-E-Misbah*** *and Bharathi M. C., " Boundary-layer flow of the power-law fluid over a moving wedge: a linear stability analysis", Engineering with Computers, (2021),* ***37****, 1807-1820.* ***(IF:8.7, Q1)***
  DOI: https://doi.org/10.1007/s00366-019-00914-x

Invited Talks

2023 | Presented an invited talk in ***"Computational Techniques in Fluid"*** *hosted by Bengaluru City University, Bengaluru, on 24th & 25th January 2023.*

Conferences

Presented

- *2022 |* ***"International Conference on Recent Advances in Mathematical Fluid Dynamics"*** *hosted by Malaviya Institute of Technology, Jaipur from 2nd- 4th December 2022. Presented a paper titled "****The onset of instability in a hydromagnetic channel flow of Casson fluid: the accurate solutions****".*

- *2022|* ***"International Conference on Applied Research in Engineering Sciences"*** *hosted by Ramaiah Institute of Technology from 24th – 25th November 2022. Presented a paper titled "****The onset of instability in a hydromagnetic channel flow of Casson fluid: the accurate solutions****".*

- *2022 | **"International Conference on Emerging Trends in Applied Advances in Mathematics"** hosted by Mount Carmel College, Bengaluru from 21st – 22nd April 2022. Presented a paper titled "**Hydrodynamic flow of non-Newtonian power-law fluid past a moving wedge or a stretching sheet: a unified computational approach**".*

- *2020 | "**Four days Online National Conference on Pure and Applied**" hosted by Gogte Institute of Technology, Belagavi, from 11th –14th August 2020. Presented a paper titled "**On Linear stability of boundary layer flow of the power-law fluid over a moving wedge**".*

- *2020 | Two days International Conference on "**International Conference on Advances in Applicable Mathematics**" held at Bharathiar University, Tamilnadu, from 21st –22nd February 2020. Presented a paper titled "**On Linear stability of boundary layer flow of the power-law fluid over a moving wedge**".*

- *2020 | Five days Congress committee on "**XLIII Indian Social Science Congress**" held at Bengaluru Central University, Bengaluru, from 17th – 21st January 2020. Presented a paper entitled "**On applications of Chebyshev Collocation technique for solving highly nonlinear differential equations**".*

- *2018 | Four days International Conference on "**International Conference on Numerical Analysis, Computing & Applications in Science, Engineering & Technology**" held at Mohandas college of Engineering and Technology, Kerala, from 17th – 20th December 2018. Presented a paper entitled "**Linear stability of two-dimensional boundary layer flow of a non-Newtonian fluid**".*

Participated

- *2022 |A workshop organized by Global Initiative of Academic Networks, GIAN on "**Interfacial Instability with Industrial Applications**" hosted by Department of Mathematics, Indian Institute of Technology, Ropar from 11th - 24th July 2022.*

- *2021 | Participated in a workshop on "**Wavelets and its Applications: Image Processing, Data Science and PDEs**", organized by Department of Mathematics, Manav Rachna University, Faridabad, in collaboration with Department of Mathematics, IIT Indore, from 06th – 10th December, 2021.*

- *2020 | Attended a lecture series on " **Recent Trends in Fluid Dynamics**" organized by Sapthagiri College of Engineering, from 17th -21st November 2020.*

- *2020 | Two days webinar on **"Fluid Dynamics"** organized by Department of Science and Humanities, held at Dr N. G. P. Institute of Technology, Coimbatore from 23rd-24th July.*

- *2020 | Five day webinar on "**Mathematical Perspectives on Computational Science & Engineering**" organized by Ramaiah Institute of Technology, from 6th-10th July.*

- *2020 | Participated in an **"International Conference on Mathematics and its Applications"** held at Bangalore University, Bengaluru on 28th -29th February.*

Academic achievements

- *Worked as a Project Fellow under the **Science and Engineering Research Board**, SERB (Core Research Grant, CRG:2019/004806) project entitled "Linear Stability of the two-dimensional boundary-layer flow in non-Newtonian fluids" sponsored by Government of India.*
- *Received Best presenter award at "**International Conference on Applied Research in Engineering Sciences**" hosted by Ramaiah Institute of Technology from 24th – 25th November 2022.*

Technical Skills

- *Programming – SciLab, Maxima, Wolfram Mathematica, MATLAB.*
- *Certification Course – Web Designing and Office Automation.*

Research Interest

- *Boundary Layer Theory.*
- *Stability of boundary layer flows.*
- *Flow at high Reynolds number.*
- *Asymptotic Solutions.*
- *Numerical techniques – Simulations through Chebyshev collocation family.*
- *Hydrodynamic Stability*

Personal Details

- *Date of Birth – 19 MARCH 1996*
- *Languages known – English, Hindi, Kannada , Urdu, Arabic and Basic German.*
- *Nationality - Indian*
- *Address – Department of Mathematics*
  Bengaluru City University
  Central College Campus
  Dr. Ambedkar Veedhi Road
  Bengaluru – 560 004

Declaration

I hereby declare that the above mentioned particulars are true and correct to the best of my knowledge and belief.

NOOR-E-MISBAH