

## Dr. Mohammad Shareef

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## EXPERIENCE

### 13/10/2022- Till Date

- Currently working as an Assistant Professor, in the Department of Mathematics & Statistics, Integral University, Lucknow.

### 09/09/2011-12/10/2022

- Lecturer, Department of Applied Sciences & Humanities, Azad Institute of Engineering & Technology (AKTU 053), Lucknow.

## EDUCATIONAL QUALIFICATION

- Ph.D. in Mathematics, Department of Mathematics and Astronomy, University of Lucknow, Lucknow in 2021.

Title: “Study of MHD flow with heat and mass transfer through porous media”.

- Masters in Mathematics with 71.91% from University of Lucknow in 2010.
- Bachelor of Science (PCM) with 59.27% from University of, Lucknow in 2007.
- Intermediate (PCM) with 54.60% from UP Board, Lucknow in 2003.
- High School (SCIENCE) with 57.16% from UP Board, Lucknow in 2001.

## LIST OF PUBLICATIONS

1. MHD flow along a vertical plate with Heat and Mass Transfer under ramped plate temperature. *Jordan Journal of Mechanical and Industrial Engineering*. Published online: 14 June, 2023 (Vol. 17, Issue 2, pp 183-193). Indexed by **SCOPUS**, **Web of Science** (Emerging Sources Citation Index, **UGC-CARE List Group II**), ISSN: 1995-6665.

2. MHD free convective flow past an impulsively started vertical plate through a porous medium with radiative heat transfer and chemical reaction in a rotating system. *Malaysian journal of fundamental and applied sciences*, Published online: 14 April 2019 (Vol. 15, Issue 2, pp 237-242). Indexed by **SCOPUS**, **Web of Science** (Emerging Sources Citation Index, **UGC-CARE List Group II**), ISSN: 2289-5981, e-ISSN: 2289-599X, Impact factor 0.763, Penerbit UTM press, penerbit UTM press, Skudai, Johor, Malaysia, 81310.
3. Study of Soret and Ion slip effects on MHD flow near an Oscillating Vertical Plate in a Rotating System. *Applications and Applied Mathematics: An International Journal (AAM)*. Published online: 01 June 2018 (Vol. 13, Issue 1, pp 516-534). Indexed in **Web of Science** (Emerging Sources Citation Index, **UGC-CARE List Group II**), ISSN: 1932-9466, Impact Factor 7.686, PRAIRIE VIEW A & M UNIV, DEPT MATHEMATICS, MS 2225, PO BOX 519, PRAIRIE VIEW, USA, TX, 77446.
4. Effect of porosity on unsteady MHD convection flow past a moving vertical plate with ramped wall temperature. *Applications and Applied Mathematics: An International Journal (AAM)*. Published online: December 2020 (Vol. 15, Issue 2, pp 1149-1171). Indexed in **Web of Science** (Emerging Sources Citation Index, **UGC-CARE List Group II**), ISSN: 1932-9466, Impact Factor 7.686, PRAIRIE VIEW A & M UNIV, DEPT MATHEMATICS, MS 2225, PO BOX 519, PRAIRIE VIEW, USA, TX, 77446.
5. Analysis of chemical reaction and thermophoresis on MHD flow near the accelerated vertical plate in a rotating system with variable temperature. *Journal of Computational and Applied Research in Mechanical Engineering (JCARME)*, Published online: January 2021 (Vol. 10, Issue 2, pp 449-460). Indexed in **SCOPUS** (**UGC-CARE List Group II**), ISSN 2251-6549, Impact Factor 0.350, Shahid Rajae Teacher Training University (SR TTU), Iran Ministry of Science, Research and Technology.
6. MHD Free Convective Flow along Vertical Oscillatory Plate with Radiative Heat Transfer in the Presence of Hall Current and Heat Source. *Journal of Mathematical and Fundamental Sciences*, Published online: December 2019 (Vol. 53, Issue 3, pp 252-264). Indexed by **SCOPUS**, **Web of Science** (Emerging Sources Citation Index, **UGC-CARE List Group II**),

ISSN: 2338-5510, Impact Factor 1.104, inst teknologi bandung, jalan ganesha 10, Bandung, Indonesia, 40132.

7. The Effect of Hall currents on MHD Flow over an oscillating vertical plate in a rotating system. *Aryabhata Journal of Mathematics and Informatics*, ISSN: 2394-9309 (E) / 0975-7139 (P), Impact Factor 5.856, **UGC Approved Journal (Sr. No 3853)**, Published online: June, 2017 (Vol. 09, Issue 01, pp 575-588).
8. MHD convective flow along vertical exponentially accelerated plate with variable temperature in the presence of Hall current with rotation. *Aryabhata Journal of Mathematics and Informatics*, ISSN: 2394-9309 (E) / 0975-7139 (P), Impact Factor 5.856, **UGC Approved Journal (Sr. No 3853)**, Published online: June, 2017 (Vol. 09, Issue 01, pp 252-260).
9. Study of Hall and Soret effect on MHD flow with a ramped plate temperature of an exponentially accelerated vertical plate embedded in a porous medium. *Journal of Fundamental and Applied Sciences*. Published online: 01 January 2019 (Vol.11, Issue 1, pp 385-411). Peer-Reviewed Journal, Indexed in African Journals Online (AJOL), ISSN: 2588-1914, 1112-9867, Impact Factor 1.120, University of El Oued, Faculty of Science and Technology, PO BOX 789.
10. Unsteady MHD flow along exponentially accelerated vertical Flat surface through porous medium with variable temperature and Hall current in a rotating system. *Peer-Reviewed Journal, Journal of Fundamental and Applied Sciences*. Published online: 01 May 2017 (Vol. 9, Issue 2, pp 1050-1062). Indexed in African Journals Online (AJOL), ISSN: 2588-1914, 1112-9867, Impact Factor 1.120, University of El Oued, Faculty of Science and Technology, PO BOX 789.
11. Unsteady MHD Flow Past Impulsively Started Vertical Plate in Porous Medium with Heat Source and Chemical Reaction. *International sciences of chemical sciences*, Published online: 03 July 2017(Vol. 15, Issue 3, pp154-166). Indexed in CNKI Open J-Gate, Chemical Abstracts (USA), CSA Technology Research Database (USA) ISSN: 0972-768X, Impact Factor 1.130, Published by Trade Science Inc.
12. Effect of radiation and rotation on unsteady MHD flow past an impulsively started vertical plate with variable mass diffusion in porous medium in the presence of Hall current.

*International Journal of Mathematical Archive, ISSN 2229 – 5046. Published online: 2016 (Vol. 7, Issue 5, pp 166-174).*

13. Rotation effect on unsteady MHD flow past an impulsively started vertical plate with variable temperature in porous medium. *International Journal of Mathematical Archive, ISSN 2229 – 5046. Published online: 2016 (Vol. 7, Issue 2, pp 148-153).*
14. Rotation effect on unsteady MHD flow past an impulsively started vertical plate with variable mass diffusion in porous medium. *Elixir Appl. Math., ISSN 2229 – 712x. Published online: 2016 (Vol. 92, pp 38986-38990).*
15. Effect of rotation and Hall current on unsteady MHD flow past an impulsively started vertical plate with heat and mass transfer in porous medium. *Elixir Appl. Math., ISSN 2229 – 712x. Published online: 2016 (Vol. 94, pp 40606-40611).*

## **CONFERENCE PAPERS**

1. Unsteady MHD flow along exponentially accelerated vertical plate with linearly dependent temperature and concentration in a rotating system. *Presented in the conference on “International conference on recent trends in statistics and data analytics” held on 31<sup>st</sup> March to 1<sup>st</sup> April, 2023, jointly organized by the Kerala Statistical Association in conjunction with its 44<sup>th</sup> annual conference and the Department of Mathematics and Statistics, Mar Ivanios College , Trivandrum.*
2. Unsteady MHD convective flow along vertical exponentially accelerated flat plate with variable temperature through porous medium in the presence of Hall current in a rotating system. *Presented in the conference on “Differential Analysis” held on 19<sup>th</sup>-20<sup>th</sup> November, 2016, at Bharata Ganita Parisad in the Department of Mathematics and Astronomy, University of Lucknow, Lucknow.*
3. Unsteady MHD flow past an impulsively started vertical isothermal plate in a porous medium. *Presented in the conference on “Mathematical Analysis & Applications” held on 18<sup>th</sup>-19<sup>th</sup> November, 2017, at Bharata Ganita Parisad in the Department of Mathematics and Astronomy, University of Lucknow, Lucknow.*
4. Unsteady MHD flow past an impulsively started vertical plate with Hall currents and

rotation. Presented in the conference on “International Symposium on Algebra, Analysis and their Applications” held on 22<sup>nd</sup> December, 2017, at the Department of Mathematics, Integral University, Lucknow.

5. MHD flow past an impulsively started vertical plate with ramped wall temperature and chemical reaction. Presented in the national seminar on “Science & Technology for new India” held on 20<sup>th</sup> November, 2017, at Vigyan Parishad, Sri Jai Narayan PG College Lucknow in collaboration with CSIR-NBRI, Lucknow.

## **FDP/WORKSHOP**

1. Attended a three day online workshop entitled “Data Analytics and Visualization Tools”, Organized by Department of Mathematics & Statistics, Faculty of science & Technology, Vishwakarma University, Pune-411048, Maharashtra, on 27-29 April, 2023 in association with TCS iON.
2. Attended a one day webinar on the topic “ Getting Started with Internet of Things” conducted by Mr. Pranav Pai Vernekar, Co-Founder and CEO of Bolt IoT a part of the academia connect program on 11/04/2023.
3. Attended the five-day online FDP on “Software Tools using Mathematical Computation” conducted by department of Computer Science and Engineering along with the Department of mathematics on 5th – 9th June, 2023.
4. Attended the ten-day (Equivalent to two weeks) Refresher Course/FDP on Topics-
  - i. “Exploratory data analysis and regression diagnostics using software packages”
  - ii. “A journey of geometry of sub manifolds in last four decades”
  - iii. “Approximation by Polynomials”
  - iv. “Theoretical and Numerical Techniques to solve Differential Equations”
  - v. “A geometric Approach to Calculus of  $R^n$ ”
  - vi. “Statistics for Correlation Research”
  - vii. “Statistical Thinking”
  - viii. “Statistical Data Analysis using SPSS”
  - ix. “Number Theory and its Application in Cryptography”
  - x. “Application of vectors(A Geometric Approach):Geometry and Calculus”
  - xi. “Linear Error-Correcting Codes”

Organized by Department of Mathematics & Statistics and Human Resources Development

Centre of Integral University from 23<sup>rd</sup> September 2023 to 9<sup>th</sup> December 2023(23<sup>rd</sup> September; 7<sup>th</sup>,14<sup>th</sup>, 21<sup>st</sup>,28<sup>th</sup> October; 4<sup>th</sup>, 11<sup>th</sup>, 25<sup>th</sup>, November; 2<sup>nd</sup>, 9<sup>th</sup> December, 2023) at Integral University, Lucknow.

5. Successful completed 12 week Online NPTEL-AICTE FDP course on “Computational Fluid Dynamics Using Finite Volume Method (Roll No-NPTEL23ME77S740700315)” conducted by IIT Madras on July-October 2023.

### **SPECIALIZATION**

- Computational Fluid Dynamics, Magnetohydrodynamics(MHD)

### **HOBBIES**

- Playing cricket, Teaching

### **STRENGTH**

Team working, Positive and result oriented attitude, fast learner, and sufficient patience to analyze the situation.

**Date: 10.07.2024**

**Place: Lucknow**



**Mohammad Shareef**