Brief Profile

Name	**:**	**Dr. Kanika**
Date of Birth	**:**	**13-07-1994**
Educational Qualification		
• ***Ph.D.***	**:**	**Awarded**
• ***M.Tech***	**:**	
• ***B.Tech***	**:**	
Work Experience		
• ***Teaching***	**:**	1.1 **years**
• ***Research***	**:**	**4.9 years**
E-mail ID	**:**	**Kanika.tomar@miet.ac.in**
Contact No.	**:**	**9610599811**
Area of Interest	**:**	: Fluid Dynamics, Numerical Analysis, Ordinary Differential Equations
Teaching		
• ***Subjects Taught at UG Level***	**:**	**Engineering Mathematics-I, II, IV**
• ***Subjects Taught at PG Level***	**:**	**Fluid Dynamics**
Research Publications		
• ***Journals***	**:**	**10**
• ***Conferences***	**:**	**01**
• ***Book Chapters***	**:**	**04**
No. of National/International Conferences attended/ Paper Presented	**:**	**05**
STC/FDP/Summer/Winter Schools/Workshops /Seminars attended	**:**	**14**
Awards/Honors	**:**	**CSIR-NET, CSIR-JRF, GATE**

LIST OF PUBLICATIONS

Research Papers Published in International Journals:

1. Mathematical analysis of MHD stagnation point flow of *Cu*-blood nanofluid past an exponential stretchable surface, International Journal for Computational Methods in Engineering Science and Mechanics, https://doi.org/10.1080/15502287.2021.1916173 (2021)

2. Heat generation/absorption and radiation effects on hydromagnetic stagnation point flow of nanofluids towards a heated porous stretching/shrinking sheet with suction/injection, Journal of Porous Media, Vol. 23 (1) pp. 27-49 (2020) - **Sci Journal**

3. Navier's slip condition and magnetic field effects on unsteady stagnation point flow subject to a stretched plate along to viscous dissipation and Joule heating utilizing nanofluids. Indian Journal of Pure and Applied physics Vol. 57 (12) pp. 861-876 (2019)- **Sci Journal**

4. Radiation heat transfer on SWCNT and MWCNT based magnetohydrodynamic nanofluid flow with marangoni convection, Physica Scripta, Vol. 95 pp. 025202 (10pp) (2020)- **Sci Journal**

5. Galerkin finite-element numerical analysis of the effects of heat generation and thermal radiation on MHD SWCNT-water nanofluid flow with a stretchable plate. Pramana - Journal of Physics, (2020) 94:38, https://doi.org/10.1007/s12043-019-1898-9- **Sci Journal**

6. Hydromagnetic Flow of Copper-Water Nanofluid with Different Nanoparticle Shapes toward a Nonlinear Stretchable Plate. In: Mathematics Applied to Engineering and Management, CRC Press, Taylor & Francis Group (2019)- **Book Chapter**

7. Similarity Solution of Hydromagnetic Flow Near Stagnation Point Over a Stretching Surface Subjected to Newtonian Heating and Convective Condition. In: Singh V., Gao D., Fischer A. (eds) Advances in Mathematical Methods and High Performance Computing. Advances in Mechanics and Mathematics, Vol. 41 (2019). Springer, Cham- **Book Chapter**

8. Modeling of thermal radiation and magnetic effects on Cu–water nanofluid flow embedded in porous medium nearby a stagnation point past a stretching/shrinking plate with suction/blowing and heat source/sink using Keller-box method. Mathematics in Engineering Sciences: Novel Theories, Technologies, and Applications (2019), Taylor & Francis Group- **Book Chapter**

9. Viscous dissipation and Joule heating in MHD Marangoni boundary layer flow and radiation heat transfer of Cu−water nanofluid along particle shapes over an exponential temperature, International Journal of Computer Mathematics, Vol. 97 (5) pp. 943-958 (2020)- **Sci Journal**

10. Numerical Analysis for Effect of Newtonian Heating Condition on MHD Flow of Cu-water Nanofluid Past a Flat Plate. SSRN: http://dx.doi.org/10.2139/ssrn.3352415(2019)- **Conference Elsevier Series**

11. Newtonian heating and convective boundary condition on MHD stagnation point flow past a stretching sheet with viscous dissipation and Joule heating. Indian Journal of Pure and Applied physics, Vol. 56(12) pp. 931-940 (2018)- **Sci Journal**

12. Impacts of viscous dissipation and Joule heating on hydromagnetic boundary layer flow of nanofluids over a flat surface subjected to Newtonian heating, SN Applied Sciences 1 (12), 1709.

13. Heat transfer and magnetohydrodynamic nanofluids flow behaviors past a nonlinear stretching surface considering viscous dissipation and Joule heating. Indian Journal of Engineering and Materials Sciences, Vol. 27, pp. 33-46 (2020)- **Sci Journal**

14. Influence of magnetic field on thermal radiation and particle shapes of copper-water nanofluid considering Marangoni boundary layer. International Journal of Mathematical, Engineering and Management Sciences, Vol. 5, No. 5, pp. 957-970, (2020)- **Scopus Index Journal**

15. Dual Solutions for Finite Element Analysis of Unsteady Hydromagnetic Stagnation Point Flow of Cu –Water Nanofluid Generated by Stretching Sheet, Advances in Applied Mathematical Analysis and Applications, (2019), River Publisher- **Book Chapter**

International Conferences

1. Attended an **International (e- conference) on *"Prospective of Interdisciplinary Research in Science and Technology in Present Scenario"*** organized by **the Department of Physics, Ch. Charan Singh University, Meerut, UP, India** held on May 15&16, 2020.
2. Presented a paper at the **"International Conference on Sustainable Computing in Science, Technology and Management"** organized by **Amity University Jaipur, Rajasthan, India** held on February 26-28, 2019.
3. Presented a paper at the **"3rd International Conference on Mathematical Techniques in Engineering Applications"** organized by **Graphic Era Deemed to be University Dehradun , Uttarakhand, India** held on December 07-08, 2018.
4. Presented a paper at the **"2nd International Conference on Modern Mathematical Methods and High Performance Computing in Science and Technology"** organized by **Inderprastha Engineering College, Ghaziabad, India** held on January 04-06, 2018.

National Conferences

1. Attended an **Online conference on *"Laplace Transforms and their Applications in Engineering"*** organized by **the Department of Mathematics, Kings Engineering College, Chennai, India** held on June 27th, 2020.

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