



Title (Dr/Mr/Ms/Mrs)	Dr	First Name	Sharad	Last Name	Sinha	Photograph
Designation	Assistant Professor					
Office Address	Room No. 88A, Department of Mathematics, University of Rajasthan, Jaipur					
Telephone Office	01412708392					
Residential Address (Optional)						
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Email	sharadsinha89@gmail.com					
Research Interests/Specialization						
Fluid Dynamics						
Publications Profile						
UGC Indexed/ Peer Reviewed Journals						
Title of the Paper	Name of the Journal			Year/Vol.		Link (If available)
MHD Jeffery–Hamel flow of a Buongiorno nanofluid in non-parallel channels	Journal of Thermal Analysis and Calorimetry			2026		MHD Jeffery–Hamel flow of a Buongiorno nanofluid in non-parallel channels Journal of Thermal Analysis and Calorimetry Springer Nature Link
Coupled heat and mass transport in a non-Newtonian fluid around a slender body under dissipative effects	Thermal Advances			2026/8		Coupled heat and mass transport in a non-Newtonian fluid around a slender body under dissipative effects - ScienceDirect
Heat transfer and flow dynamics of Williamson fluid in a converging/diverging channel under surface stretching and shrinking effects	Journal of Engineering and Applied Science			2026/73		Heat transfer and flow dynamics of Williamson fluid in a converging/diverging channel under surface stretching and shrinking effects Journal of Engineering and Applied Science Springer Nature Link
Analysis of thermal and concentration transport in unsteady MHD squeezing nanofluid flow under the influence of chemical reaction and joule heating	International Journal of Thermofluids			2026/31		https://www.sciencedirect.com/science/article/pii/S2666202725004823
MHD Casson fluid flow in C-type lid-driven cavity with viscous dissipation	International Journal of Thermofluids			2025/30		https://www.sciencedirect.com/science/article/pii/S2666202725004136?via%3Dihub
Jeffery–Hamel flow of Casson fluid under the influence of	International Journal of Ambient Energy			2025/46(1)		https://www.tandfonline.com/doi/ful



magnetic field with Joule heating, viscous dissipation, and heat source effects			1/10.1080/01430750.2025.2584304
Viscous dissipation and joule heating effect on MHD boundary layer flow of chemically reactive Jeffrey fluid pasta wedge	ZAMM - Journal of Applied Mathematics and Mechanics	2025/105(5)	https://onlinelibrary.wiley.com/doi/10.1002/zamm.70100
Numerical Computation of Magnetohydrodynamic Maxwell fluid flow with mixed convection and heat source effects across an inclined exponential stretching surface	Partial Differential Equations in Applied Mathematics	2024	https://www.sciencedirect.com/science/article/pii/S2666818125000968
MHD free convective Casson fluid flow in an inclined square cavity with moving upper wall	NUMERICAL HEAT TRANSFER, PART A: APPLICATIONS	2024	https://www.tandfonline.com/doi/full/10.1080/10407782.2024.2366003
Effect of radiation and slip parameter on MHD mixed convective Casson fluid flow along a vertical stretching sheet	Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering	Special Issue: ICTAES21	https://journals.sagepub.com/doi/10.1177/09544089241239597
Buoyancy Assisting and Opposing Mixed Convective MHD Flow of Nanofluid along a Vertical Stretching Sheet	Colloid Journal	2023/85(1)	https://link.springer.com/article/10.1134/S1061933X2260035X
Radiation and slip effects on MHD point flow of nanofluid towards a stretching sheet with melting heat transfer	HEAT TRANSFER	2022/51(4)	https://onlinelibrary.wiley.com/doi/epdf/10.1002/htj.22434
Numerical study of chemical reaction and heat transfer of MHD slip flow with Joule heating and Soret-Dufour effect over an exponentially stretching sheet	HEAT TRANSFER	2022/51(2)	https://onlinelibrary.wiley.com/doi/full/10.1002/htj.22382
MHD Mixed Convective Slip Flow along an Inclined Porous Plate in Presence of Viscous Dissipation and Thermal Radiation	TRENDS IN SCIENCES	2022/19(4)	https://tis.wu.ac.th/index.php/tis/article/view/2685/149
Time Dependent Magnetohydrodynamic Flow of CuO/Al ₂ O ₃ /TiO ₂ Water Based Nanofluid along a Vertical Permeable Stretching Surface	Colloid Journal	2021/83(4)	https://link.springer.com/article/10.1134/S1061933X21040116
MHD mixed convective stagnation point flow along a vertical stretching sheet with heat source/sink	International Journal of Heat and Mass Transfer	2018/117	https://www.sciencedirect.com/science/article/abs/pii/S001793101732793X?via%3Dihub
Book(s)/Book Chapter(s)			
Title of the Book/Chapter	Publisher	National/International	Year
Elementary Mathematics on Scilab (A Practical Approach) ISBN:	Jaipur Publishing House	National	2019



9788180472374			
साइलैब पर प्राथमिक गणित (एक प्रायोगिक उपागम) ISBN: 9788180472367	Jaipur Publishing House	National	2019

Education

Course	Name of the Institution	Year of Passing
Ph. D.	University of Rajasthan, Jaipur	2018
Title of Ph.D.:	A STUDY OF SHEAR STRESS AND RATE OF HEAT TRANSFER IN VISCOUS INCOMPRESSIBLE FLUID FLOW PROBLEMS	
M.Phil.	University of Rajasthan, Jaipur	2014
PG (Mention Degree here)	M.Sc. (Mathematics), University of Rajasthan, Jaipur	2011
UG (Mention Degree here)	B.Sc. (Mathematics Hons.), University of Rajasthan, Jaipur	2009
Any other qualification:		

Teaching Experience (In Years)

UG	12 Years	PG	12 Years
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Areas of Interest / Specialization

Fluid Dynamics

Courses/Papers Taught

PG : Mathematical Programming-I&II(MAT C01 & C02), Rigid Body Dynamics & Hydrodynamics(MAT 705 & 805), Boundary Layer Theory-I&II(MAT B01 & B02), Special Functions (MAT 706 & 806)

Research Guidance

Student (s)	Degree	Title	Year of Award
Ms. Prachi Gupta	Ph.D.	SOME STUDIES OF HEAT AND MASS TRANSFER OF NANO FLUID FLOW THROUGH VARIOUS GEOMETRIES	2026
Mr. Ram Dhan	Ph.D.	HEAT TRANSFER EFFECTS ON SOME CASSON FLUID MODEL FLOWS	2026
Mr. Manoj Kumar Nahlia	Ph.D.	SOME STUDIES OF NON-NEWTONIAN FLUID FLOW THROUGH VARIOUS GEOMETRIES	Ongoing
Ms. Sita Meena	Ph.D.	A STUDY OF SOME MAGNETOHYDRODYNAMIC FLUID FLOWS THROUGH POROUS MEDIA	Ongoing
Mr. Saumy Mittal	Ph.D.	HEAT TRANSFER ANALYSIS IN NEWTONIAN/ NON-NEWTONIAN FLUID FLOW MODELS	Ongoing

Online Research Profile Link (Optional)

ORCID	https://orcid.org/0000-0002-0071-1350
Google Scholar	https://scholar.google.com/citations?user=P1ehiEsAAAAJ&hl=en
ResearchGate	https://www.researchgate.net/profile/Sharad-Sinha

Invited Lectures/Presentations/Conference Organization

Invited Lectures



Title	Inviting Institution		Date	International/ National
Paper Presentations				
Title	Title of the Seminar/Conference	Host Institution	Durat ion	International/ National
Numerical Study of Chemically Reactive Blood Flow Through an Artery with Magnetic Field Effect	International Conference on "Real World Domains and Interfaces in Mathematics : Challenges Tools & Strategies", Department of Mathematics, University of Rajasthan, Jaipur and National Academy of Sciences, India, Rajasthan Chapter		Decem ber 17- 18, 2022	International
MHD Slip Flow Past an Exponentially Stretching Sheet with Chemical Reaction and Soret-Dufour Effects	27th International Conference of International Academy of Physical Sciences (CONIAPS XXVII) on "Fluid Mechanics and Its Industrial Applications", Department of P.G. Studies and Research in Mathematics, Kuvempu University and International Academy of Physical Sciences		October 26-28, 2021	International
Magnetohydrodynamic Slip Flow along a Permeable Stretching Cylinder	Online National Conference on "Recent Trends in Mathematical Modeling and Its Applications" (NCRTMMA-2021), Department of Mathematics, ICFAI Science School, The ICFAI University, Tripura		August 23-27, 2021	National
Effect of Chemical Reaction on MHD Slip Flow past an Exponentially Stretching Sheet Embedded in Porous Medium with Soret-Dufour Effects, Viscous Dissipation and Joule Heating	26th International Conference (Online) of International Academy of Physical Sciences (CONIAPS XXVI) on "Advances in Mechanics", Department of Mathematics & Statistics, Manipal University Jaipur		Decem ber 18- 20, 2020	International
Thermophoresis and Brownian Motion Effects on Unsteady MHD Boundary Layer Flow of CuO-Water Nanofluid	International Conference on "Algebra and Continuum Mechanics", Department of Mathematics and Statistics, Himachal Pradesh University, Shimla		Novem ber 23- 25, 2018	International
Unsteady MHD Nano-fluids (Water based CuO, Al2O3, TiO2) flow past a Permeable Stretching Vertical Surface Placed in Porous Medium	National Conference on "Intercepting Emerging Domains in Mathematical Sciences" and 22nd Prof. P.D. Verma Memorial Lecture (NCIEDMS & PDVML-2018), Department of Mathematics, University of Rajasthan, Jaipur		Septem ber 07- 08, 2018	National
Combined Effects of Viscous Dissipation and Joule Heating on Unsteady MHD Flow and Heat Transfer over a Stretching Sheet Saturated in Porous Medium	21st International Conference of International Academy of Physical Sciences on "Symbiotic Development of Mathematical, Physical, Chemical & Computational Sciences" & Symposium on "Recent Advances and Future Directions on Mathematics in Bio-Sciences", Department of Mathematics, Guru Jambheshwar University of Science & Technology, Hisar, Haryana		October 28-30, 2017	International
Combined Effects of Viscous Dissipation and Joule Heating on Unsteady MHD Flow and Heat Transfer over a Stretching Sheet	20th International Conference of International Academy of Physical Sciences on "Recent Advances in Physical Sciences and Future Challenges", Faculty of Science(Departments of Mathematics, Physics and Chemistry), Osmania University, Hyderabad		July 14-16, 2017	International
MHD Mixed Convective Slip Flow and Heat Transfer along an Inclined Porous Plate Placed in Porous Medium in Presence of Viscous Dissipation and Thermal Radiation	UGC Sponsored National Conference on "Emerging Interfaces in Fluid Dynamics and Optimization Techniques" (NCEIFDOT - 2017), Department of Mathematics, University of Rajasthan, Jaipur		March 25-26, 2017	National
MHD Mixed Convective Stagnation Point Flow Along A Vertical Stretching Sheet With Heat Source/Sink	International Conference on "Recent Advances in Mathematics and Their Applications", Department of Mathematics, University of Rajasthan, Jaipur		July 10-12, 2016	International
Heat and Mass Transfer in MHD Mixed Convective Stagnation Point Flow along a Vertical Stretching Sheet	18th International Conference of International Academy of Physical Sciences (CONIAPS XVIII), Faculty of Science, University of Allahabad, India in collaboration with United Group of Institutions, Allahabad		Decem ber 22- 24, 2015	International



MHD Mixed Convective Slip Flow, Heat and Mass Transfer along a Vertical Porous Plate	UGC Sponsored National Seminar on "Recent Developments in Pure and Applied Mathematics" and 19th Prof. P.D. Verma Memorial Lecture-2015 (NSRDPAM & PDVML - 2015), Department of Mathematics, University of Rajasthan, Jaipur	September 12-13, 2015	National
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Conference/Seminar/Workshop Organised

Conference	International Conference on Real World Domains and Interfaces in Mathematics: Challenges Tools & Strategies (ICRWDIM-2022), Department of Mathematics, University of Rajasthan, Jaipur, India	December 17-18, 2022	International
Conference	International Conference on New Vistas in Pure & Applied Mathematics and Statistics (ICNVPAMS-2019), Department of Mathematics, University of Rajasthan, Jaipur, India	November 24-26, 2019	International
Conference	National Conference on Recent Applications of Mathematics in Science and Technology (RAMST2019), International Academy of Physical Sciences, India & Prof. P.R. Sharma Memorial Educators Association	September 28-29, 2019	National
Conference	National Conference on Intercepting Emerging Domains in Mathematical Sciences and 22nd Prof. P.D. Verma Memorial Lecture (NCIEDMS & PDVML-2018), Department of Mathematics, University of Rajasthan, Jaipur, India	September 07-08, 2018	National
Conference	UGC Sponsored National Conference on Emerging Strategies in Mathematics for Real World Problems and 21st Prof. P.D. Verma Memorial Lecture (NCESMRWP & PDVML-2017), Department of Mathematics, University of Rajasthan, Jaipur, India	December 23-24, 2017	National
Conference	UGC Sponsored National Conference on Emerging Interfaces in Fluid Dynamics and Optimization Techniques (NCEIFDOT-2017), Department of Mathematics, University of Rajasthan, Jaipur, India	March 25-26, 2017	National
Conference	International Conference on Recent Advances in Mathematics and Their Applications (ICRAMTA-2016), Department of Mathematics, University of Rajasthan, Jaipur, India	July 10-12, 2016	International
Seminar	UGC Sponsored National Seminar on Recent Developments in Pure and Applied Mathematics and 19th Prof. P.D. Verma Memorial Lecture (NSRDPAM & PDVML-2015), Department of Mathematics, University of Rajasthan, Jaipur, India	September 12-13, 2015	National
Conference	17th International Conference of International Academy of Physical Sciences (CONIAPS XVII) on Emerging Trends in Physical Sciences & Technology, University of Rajasthan, J.L.N. Marg, Jaipur, India	January 16-18, 2015	International

Orientation/Refresher/FDP/STC Attended

Type of Course	Title	Organiser	Duration	Sponsor
Refresher Course	3rd Online Refresher Course in ICT	UGC-Human Resource Development Centre, Gujarat University, Ahmedabad	12th July 2022 to 25th July 2022	UGC
Refresher Course	Refresher Course on ICT (Inter/Multi-Disciplinary)	UGC-Human Resource Development Centre, Himachal Pradesh University, Shimla	1st February 2021 to 13th February 2021	UGC
FDP	NPTEL-AICTE Faculty Development Programme on Constrained and unconstrained optimization	NPTEL-AICTE, Ministry of HRD, Govt. of India	01st September 2020 to 31st December 2020	AICTE
FDP	FDP on Applications of Mathematical Modelling in Science and Engineering	Rajasthan Technical University, Kota and Vivekananda Institute of Technology, Jaipur	25th July 2020 to 27th July 2020	
FDP	One Week National Faculty Development Program Through online mode on LATEX & Scilab	University of Rajasthan, Jaipur with Spoken Tutorial Project, IIT Bombay	09th June 2020 to 15th June 2020	

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Refresher Course	Refresher Course in Advancements in SCience & Technology (Inter Disciplinary)	UGC-Human Resource Development Centre, University of Rajasthan, Jaipur	29th July 2019 to 10th August 2019	UGC
Orientation Programme	UGC Sponsored Orientation Programme (102nd Orientation Programme)	UGC-Human Resource Development Centre, University of Rajasthan, Jaipur	12th September 2016 to 8th October 2016	UGC