

Curriculum Vitae

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RESEARCH INTEREST

Computational Fluid Dynamics, Magnetohydrodynamics (MHD), Heat and Mass Transfer and Numerical Analysis

EDUCATIONAL QUALIFICATIONS

Degree	University/Board	Year	Marks (%)	Division
Ph.D. (Applied Mathematics) *	Indian Institute of Technology (ISM), Dhanbad	2012	Course Work with 'A' grade	NA
M.Sc. (Mathematics)	Deen Dayal Upadhyay Gorakhpur University, Gorakhpur	2004	71.1	1 st
B.Sc.	Veer Bahadur Singh Purvanchal University, Jaunpur	2002	68.9	1 st
Intermediate (12 th)	U. P. Board	1998	64.2	1 st
High School (10 th)	U. P. Board	1996	63.7	1 st

**Ph.D. degree awarded on October 08, 2012, under the supervision of Prof. Gauri Shanker Seth on the research topic entitled "Theoretical Study of the Problems of Magnetohydrodynamic Flow in a Rotating Channel"*

OTHER ACADEMIC QUALIFICATIONS/ACHIEVEMENTS

- [1] Joint CSIR-UGC test for Junior Research Fellowship and eligibility for Lectureship (NET) held on December 21, 2008, qualified for Junior Research fellowship of UGC and eligibility for Lectureship (NET). **(Roll No. 407821)**
- [2] Joint CSIR-UGC test for Junior Research Fellowship and eligibility for Lectureship (NET) held on June 21, 2009, qualified for Junior Research fellowship of CSIR and eligibility for Lectureship (NET) (AI Rank: 90). **(Roll No. 412081)**
- [3] Joint CSIR-UGC test for Junior Research Fellowship and eligibility for Lectureship (NET) held on December 20, 2009, qualified for eligibility for Lectureship (NET) (AI Rank: 71). **(Roll No. 415391)**
- [4] National Programme on Technology Enhanced Learning (NPTEL) course “Numerical Methods” was completed successfully with a consolidated score of 76 % (Elite Certificate) (Course credit 2). **(Roll No. NPTEL18MA11S21120152)**
- [5] National Programme on Technology Enhanced Learning (NPTEL) course “Transform Techniques for Engineers” was completed successfully with a consolidated score of 96 % (Elite + Gold Certificate) (Course credit 3). **(Roll No. NPTEL18MA12S11151735)**
- [6] Annual Refresher Program in Teaching (ARPIT), March 2019 “A Refresher Course in Calculus” completed successfully. **(Roll No. 19071011584)**
- [7] National Programme on Technology Enhanced Learning (NPTEL) course “Transform Calculus and its Applications to Differential Equations” was completed successfully with a consolidated score of 90 % (Elite + Gold Certificate) (Course credit 3). **(Roll No. NPTEL19MA04S51161647)**
- [8] National Programme on Technology Enhanced Learning (NPTEL) course (12-week January-April, 2020) “Mathematical Methods and its Applications” was completed successfully with a score of 100 %. **(Roll No. NPTEL20MA14S1917960)**

FELLOWSHIPS/AWARDS

- [1] Junior Research Fellowship Award of University Grant Commission (UGC), New Delhi.
- [2] Junior Research Fellowship Award of Council of Scientific and Industrial Research (CSIR), New Delhi.
- [3] Best Mathematical Modeling Team Award for the mathematical modeling project on the industrial problem “A Curve-Fitting Problem” in the International Workshop on “Computational PDE: Modeling and Simulation” held during January 3-12, 2011 in the Department of Mathematics, IIT-Madras.
- [4] Travel grant to attend the International Conference on Application of Fluid Dynamics 2012, Bostwana by Council of Scientific and Industrial Research (CSIR), New Delhi.

ACADEMIC EXPERIENCES (EMPLOYMENT DETAILS)

Institution	Designation	Nature of Appointment	From	To
Siddharth University, Kapilvastu	Associate Professor	Permanent	03.01.2022	Till date
Vijayanagara Sri Krishnadevaraya University, Ballari	Assistant Professor	Permanent	20.10.2012	31.12.2021
Nagaland University (A Central University), Lumami	Assistant Professor	Permanent	Appointed on 08.10.2012	NA

RESEARCH FUNDING/RESEARCH PROJECT

1. Research project entitled “Mathematical modeling and analysis of biomagnetic fluid flows through various segments and shapes of the arterial system under the action of magnetic field domain” under Seed Money Project Grants for the Young Faculty scheme sanctioned by V. S. K. University, Ballari vides order No. VSKUB/ADM/ORDER/2020-21/1982, Dated: 08.01.2021. Sanctioned Amount: Rs. 0.75 Lac. **(Completed)**

RESEARCH GUIDING (PH.D. GUIDING)

Successfully guided six (06) students for research work leading to the Ph.D. degree:

S. No.	Name of Student	Date of Registration	Date of Award
1.	S. Ghousia Begam	07.04.2014	12.07.2018
2.	Naveen Joshi	08.04.2014	24.01.2019
3.	C. T. Srinivasa	03.04.2014	04.02.2019
4.	Pratima Rohidas	07.04.2014	24.02.2020
5.	Vishwanath S.	20.04.2016	22.04.2021
6.	Sunitha K.	20.04.2016	20.12.2022

RESEARCH PAPERS PUBLISHED/ACCEPTED

- [1] J. K. Singh, G. S. Seth and Syed M. Hussain, Thermal performance of hydromagnetic nanofluid flow within an asymmetric channel with arbitrarily conductive walls filled with Darcy-Brinkman porous medium, Journal of Magnetism and Magnetic Materials, **582**

- (2023), 171034. <https://doi.org/10.1016/j.jmmm.2023.171034> (SCI, SCOPUS, IF: 3.097, ISSN 0304-8853)
- [2] J. K. Singh, Hanumantha, S. Kolasani, and Syed M. Hussain, Exploration of heat and mass transport in oscillatory hydromagnetic nanofluid flow within two verticals alternatively conducting surfaces, *Journal of Applied Mathematics and Mechanics: Zeitschrift für Angewandte Mathematik und Mechanik (ZAMM)*, (2023). <https://doi.org/10.1002/zamm.202300216> (SCI, SCOPUS, IF: 2.3, ISSN 1521-4001)
- [3] J. K. Singh, S. Kolasani, Hanumantha and G. S. Seth, Scrutiny of induced magnetic field and Hall current impacts on transient hydromagnetic nanofluid flow within two vertical alternatively magnetized surfaces, *Proc. IMechE Part E: Journal of Process Mechanical Engineering*, **237** (4) (2022), 1595-1606. <https://doi.org/10.1177/09544089221119255> (SCI, SCOPUS, IF: 2.4, ISSN 0954-4089)
- [4] J. K. Singh, S. Kolasani and G. S. Seth, Heat and mass transport nature of MHD nanofluid flow over a magnetized and convectively heated surface including Hall current, magneto and thermo diffusions impacts, *Ricerche di Matematica*, (2022), 1-12. <https://doi.org/10.1007/s11587-022-00687-4> (SCIE, SCOPUS, IF: 1.2, ISSN 1827-3491)
- [5] J. K. Singh and S. Vishwanath, Hall and induced magnetic field effects on MHD buoyancy driven flow of Walters' B fluid over a magnetized convectively heated inclined surface, *International Journal of Ambient Energy*, **43** (1) (2022), 4444-4453. <https://doi.org/10.1080/01430750.2021.1909652> (ESCI, SCOPUS, ISSN 0143-0750)
- [6] J. K. Singh, Hanumantha and G. S. Seth, Scrutiny of convective MHD second grade fluid flow within two alternatively conducting vertical surfaces with Hall current and induced magnetic field, *Heat Transfer*, **51** (8) (2022), 7613-7634. <https://doi.org/10.1002/htj.22658> (ESCI, SCOPUS, IF: 3.6, ISSN 2688-4542)
- [7] J. K. Singh and G. S. Seth, Heat and mass transport performance of MHD elastico-viscous fluid flow over a vertically oriented magnetized surface with magnetic and thermo diffusions, *Heat Transfer*, **51** (2) (2022), 2258-2278. <https://doi.org/10.1002/htj.22399> (ESCI, SCOPUS, IF: 3.6, ISSN 2688-4542)
- [8] J. K. Singh and G. S. Seth, Thermo-diffusion impacts on the flow of an elastico-viscous fluid over an inclined heated plane with magnetized wall, *Proc. IMechE Part E: Journal Process Mechanical Engineering*, **236** (4) (2022), 1581-1592. <https://doi.org/10.1177/09544089211069254> (SCI, SCOPUS, IF: 2.4, ISSN 0954-4089)
- [9] J. K. Singh and S. Kolasani, Energy dissipation and Hall effect on MHD convective flow of nanofluid within an asymmetric channel with arbitrary wall thickness and conductance, *The European Physical Journal Plus*, **136** (2021), 1074. <https://doi.org/10.1140/epjp/s13360-021-02022-6> (SCI, SCOPUS, IF: 3.758, ISSN 2190-5444)

- [10] J. K. Singh, S. Kolasani and S. Vishwanath, Significance of Hall effect on heat and mass transport of Titanium alloy-water based nanofluid flow past a vertical surface with IMF effect, *Heat Transfer*, **50 (6)** (2021), 5793-5812. <https://doi.org/10.1002/htj.22149> (ESCI, SCOPUS, IF: 3.6, ISSN 2688-4542)
- [11] J. K. Singh, G. S. Seth and S. Vishwanath, Impacts of the periodic wall conditions to the hydromagnetic convective flow of viscoelastic fluid through a vertical channel with Hall current and induced magnetic field, *Heat Transfer*, **50 (2)** (2021), 1812-1835. <https://doi.org/10.1002/htj.21957> (ESCI, SCOPUS, IF: 3.6, ISSN 2688-4542)
- [12] J. K. Singh and S. Vishwanath, Hall and induced magnetic field effects on convective flow of viscoelastic fluid within an inclined channel with periodic surface conditions, *International Journal of Thermofluid Science and Technology*, **7 (4)** (2020), Paper No. 070402. <https://doi.org/10.36963/IJTST.2020070402> (SCOPUS, ISSN 2706-9885)
- [13] J. K. Singh and S. Vishwanath, Hall and ion-slip effects on MHD free convective flow of a viscoelastic fluid through porous regime in an inclined channel with moving magnetic field, *Kragujevac J. Sci.*, **42** (2020), 5-18. (ESCI, ISSN 1450-9636) <https://doi.org/10.5937/KgJSci2042005K>
- [14] J. K. Singh, G. S. Seth, S. Vishwanath and P. Rohidas, Steady MHD mixed convection flow of a viscoelastic fluid over a magnetized convectively heated vertical surface with Hall current and induced magnetic field effects, *Heat Transfer*, **49 (8)** (2020), 4370-4393. <https://doi.org/10.1002/htj.21831> (ESCI, SCOPUS, IF: 3.6, ISSN 2688-4542)
- [15] J. K. Singh, G. S. Seth, S. Ghousia Begum and S. Vishwanath, Hydromagnetic free convective flow of Walters'-B fluid over a vertical surface with time varying surface conditions, *World Journal of Engineering*, **17 (2)** (2020), 295-307. <https://doi.org/10.1108/WJE-06-2019-0163> (SCI, SCOPUS, IF: 1.9, ISSN 1708-5284)
- [16] J. K. Singh, G. S. Seth, Naveen Joshi and C. T. Srinivasa, Mixed convection flow of a viscoelastic fluid through a vertical porous channel influenced by a moving magnetic field with Hall and ion-slip currents, rotation, heat radiation and chemical reaction, *Bulgarian Chemical Communications*, **52 (1)** (2020), 147-158. <https://doi.org/10.34049/bcc.52.1.4689> (SCI, SCOPUS, IF: 0.324, ISSN 0324-1130)
- [17] J. K. Singh, G. S. Seth and P. Rohidas, Impacts of time varying wall temperature and concentration on MHD free convective flow of a rotating fluid due to moving free-stream with Hall and ion-slip currents, *International Journal of Thermofluid Science and Technology*, **6 (3)** (2019), Paper No. 19060301. <https://doi.org/10.36963/IJTST.19060301> (SCOPUS, ISSN 2706-9885)
- [18] B. J. Gireesha, C. T. Srinivasa, N. S. Shashikumar, Madhu Macha, J. K. Singh and B. Mahanthesh, Entropy generation and heat transport analysis of Casson fluid flow with viscous and joule heating in an inclined porous microchannel, *Proc. IMechE Part E: Journal Process Mechanical Engineering*, **255(5)** (2019), 1173-1184. <https://doi.org/10.1177/0954408919849987> (SCI, SCOPUS, IF: 2.4, ISSN 0954-4089)

- [19] C. T. Srinivasa, **J. K. Singh**, B. J. Geerasha and M. Archana, Effects of variable fluid property on magnetohydrodynamic flow of nanofluid past a flat plate, *Journal of Nanofluids*, **8(3)** (2019), 520-525. <https://doi.org/10.1166/jon.2019.1608> (ESCI, SCOPUS, ISSN 2169-432X)
- [20] C. T. Srinivasa, **J. K. Singh**, B. J. Geerasha and M. Archana, Heat and mass transfer analysis of Casson nanofluid flow past static/moving vertical plate with heat radiation, *Journal of Nanofluids*, **8(3)** (2019), 543-549. <https://doi.org/10.1166/jon.2019.1618> (ESCI, SCOPUS, ISSN 2169-432X)
- [21] **J. K. Singh**, S. Ghousia Begum and G. S. Seth, Influence of Hall current and wall conductivity on hydromagnetic mixed convective flow in a rotating Darcian channel, *Physics of Fluids*, **30** (2018), 113602 (12 pages). <https://doi.org/10.1063/1.5054654> (SCI, SCOPUS, IF: 4.98, ISSN 1070-6631)
- [22] **J. K. Singh**, N. Joshi and P. Rohidas, Unsteady MHD natural convective flow of a rotating Walters'-B fluid over an oscillating plate with fluctuating wall temperature and concentration, *Journal of Mechanics*, **34(4)** (2018), 529-532. <https://doi.org/10.1017/jmech.2017.25> (SCI, SCOPUS, IF: 1.7, ISSN 1727-7191)
- [23] **J. K. Singh** and C. T. Srinivasa, Unsteady natural convection flow of a rotating fluid past an exponentially accelerated vertical plate with Hall current, ion-slip and magnetic effect, *Multidiscipline Modeling in Materials and Structures*, **14(2)** (2018), 216-235. <https://doi.org/10.1108/MMMS-06-2017-0045> (SCIE, SCOPUS, IF: 2.655, ISSN 1573-6105)
- [24] **J. K. Singh**, G. S. Seth and S. Ghousia Begum (2018), Unsteady MHD natural convection flow of a rotating viscoelastic fluid over an infinite vertical porous plate due to oscillating free-stream, *Multidiscipline Modeling in Materials and Structures*, **14 (2)** (2018), 236-260. <https://doi.org/10.1108/MMMS-06-2017-0054> (SCIE, SCOPUS, IF: 2.655, ISSN 1573-6105)
- [25] **J. K. Singh**, N. Joshi and C. T. Srinivasa, Unsteady MHD generalized Couette flow in a rotating channel with induced magnetic field, Hall current and periodically magnetized walls, *Journal of International Academy of Physical Sciences*, **17(3)** (2017), 219-239. (ISSN 0974-9373)
- [26] **J. K. Singh**, P. Rohidas, Naveen Joshi and S. Ghousia Begum, Influence of Hall and ion-slip currents on unsteady MHD free convective flow of a rotating fluid past an oscillating vertical plate, *International Journal of Heat and Technology*, **35(1)** (2017), 37-52. <http://dx.doi.org/10.18280/ijht.350106> (ESCI, SCOPUS, IF: 0.9, ISSN 0392-8764)
- [27] **J. K. Singh**, G. S. Seth and S. Ghousia Begum, Unsteady MHD natural convection flow of a rotating fluid over an infinite vertical due to oscillatory movement of the free-stream with Hall and ion-slip currents, *Diffusion Foundations*, **11** (2017), 146-161. <https://doi.org/10.4028/www.scientific.net/DF.11.146> (ISSN 2296-3642)
- [28] G. S. Seth and **J. K. Singh**, Mixed convection hydromagnetic flow in a rotating channel with Hall and wall conduction effects, *Applied Mathematical Modelling*, **40** (2016), 2783–2803. <http://dx.doi.org/10.1016/j.apm.2015.10.015> (SCI, SCOPUS, IF: 5.336, ISSN 0307-904X)

- [29] J. K. Singh, S. Ghouseia Begum and Naveen Joshi, Unsteady magnetohydrodynamic Couette-Poiseuille flow within porous plates filled with porous medium in the presence of a moving magnetic field with Hall and ion-slip effects, *International Journal of Heat and Technology*, **34(1)** (2016), 89-97. <http://dx.doi.org/10.18280/ijht.340113> (ESCI, SCOPUS, IF: 0.9, ISSN 0392-8764)
- [30] G. S. Seth, J. K. Singh, N. Mahto and Naveen Joshi, Oscillatory Hartmann flow in rotating channel with magnetized walls, *Mathematical Sciences Letters*, **5(3)** (2016), 259-269. <http://dx.doi.org/10.18576/msl/050307> (ISSN 2090-9616)
- [31] J. K. Singh, Naveen Joshi, S. Ghouseia Begum and C. T. Srinivasa, Unsteady hydromagnetic heat and mass transfer natural convection flow past an exponentially accelerated vertical plate with Hall current and rotation in the presence of thermal and mass diffusions, *Frontiers in Heat and Mass Transfer*, **7, 24** (2016), (12 pages). <http://dx.doi.org/10.5098/hmt.7.24> (ESCI, SCOPUS, IF: 1.8, ISSN 2151-8629)
- [32] J. K. Singh, S. Ghouseia Begum and Naveen Joshi, Unsteady MHD Couette-Hartmann flow through a porous medium bounded by porous plates with Hall current, ion-slip and Coriolis effects, *International Journal of Industrial Mathematics*, **8(4)** (2016), Article ID IJIM-00727, 14 pages. http://ijim.srbiau.ac.ir/article_9594_1553.html (ISSN 2008-5621)
- [33] J. K. Singh, S. Ghouseia Begum and Naveen Joshi, Effects of Hall current and ion-slip on unsteady hydromagnetic generalised Couette flow in a rotating Darcian channel, *Journal of Mathematical Modeling*, **3(2)** (2015), 145-167. http://jmm.guilan.ac.ir/article_1249_72.html (SCOPUS, ISSN 2345-394X)
- [34] G. S. Seth, S. Sarkar and J. K. Singh, Hydromagnetic Couette flow of class-II in a rotating system with Hall effects, *OPJIT International Journal of Innovation & Research*, **4(1)** (2015), 1-8. <http://www.journal.opjit.org/volume4.aspx> (ISSN 2319-4340)
- [35] J. K. Singh, Naveen Joshi and S. Ghouseia Begum, Unsteady MHD Hartmann-Couette flow due to time dependent movement of the plate of a Darcian channel with Hall current and ion-slip effects, *International Journal of Fluid Mechanics Research*, **42(6)** (2015), 463-484. <http://dx.doi.org/10.1615/InterJFluidMechRes.v42.i6.10> (SCIE, SCOPUS, IF: 1.1, ISSN 1064-2277)
- [36] G. S. Seth and J. K. Singh, Effects of Hall current on unsteady MHD Couette flow of class-II of a in a rotating system, *Journal of Applied Fluid Mechanics*, **6(4)** (2013), 473-484. <http://dx.doi.org/10.36884/jafm.6.04.21654> (SCIE, SCOPUS, IF: 1.405 ISSN 1735-3572)
- [37] G. S. Seth, J. K. Singh and G. K. Mahato, Hall effects on unsteady magnetohydrodynamic Couette flow within a porous channel due to accelerated movement of one of its plates, *Journal of Nature Science and Sustainable Technology*, **7(3)** (2013), 271-290. (ISSN 1933-0324)
- [38] G. S. Seth and J. K. Singh, Hall effects on unsteady MHD Couette flow in a rotating system in the presence of an inclined magnetic field, *Journal of Magnetohydrodynamics, Plasma and Space Research*, **18(1)** (2013), 51-73. (ISSN 1083-4729)

- [39] G. S. Seth, G. K. Mahato, S. Sarkar and **J. K. Singh**, Oscillatory hydromagnetic Couette flow in a rotating system with induced magnetic field, *Journal of Magnetohydrodynamics, Plasma and Space Research*, **18(1)** (2013), 75-91. (ISSN 1083-4729)
- [40] G. S. Seth and **J. K. Singh**, Unsteady MHD Couette flow of class-II of a viscous incompressible electrically conducting fluid in a rotating system, *International Journal of Applied Mechanics and Engineering*, **17(2)** (2012), 495-512. (ESCI, SCOPUS, ISSN 1734-4492)
- [41] G. S. Seth, **J. K. Singh** and G. K. Mahato, Effects of hall current and rotation on unsteady hydromagnetic couette flow within a porous channel, *International Journal of Applied Mechanics*, **4(2)** (2012), 1250015 (25 pages). <http://dx.doi.org/10.1142/S1758825112500159> (SCI, SCOPUS, IF: 3.951, ISSN 1758-8251)
- [42] G. S. Seth, G. K. Mahato and **J. K. Singh**, Combined free and forced convection Couette-Hartmann flow in a rotating system with Hall effects, *Journal of Nature Science and Sustainable Technology*, **6(3)** (2012), 125-150. (ISSN 1933-0324)
- [43] G. S. Seth and **J. K. Singh**, Steady hydromagnetic Couette flow in a rotating system with non-conducting walls, *International Journal of Engineering Science and Technology*, **3(2)** (2011), 146-156. <http://dx.doi.org/10.4314/ijest.v3i2.68142> (ISSN 2141-2820)
- [44] G. S. Seth, S. M. Hussain and **J. K. Singh**, MHD Couette flow of class-II in a rotating system, *Journal of Applied Mathematics and Bioinformatics*, **1(1)** (2011), 31-54. (ISSN 1792-6602)
- [45] G. S. Seth, **J. K. Singh** and G. K. Mahato, Unsteady hydromagnetic Couette flow within a porous channel with Hall effects, *International Journal of Engineering Science and Technology*, **3(6)** (2011), 172-183. <http://dx.doi.org/10.4314/ijest.v3i6.14> (ISSN 2141-2820)
- [46] G. S. Seth, G. K. Mahato and **J. K. Singh**, Effects of Hall current and rotation on MHD Couette flow of class-II, *Journal of International Academy of Physical Science*, **15** (2011), 213-230. (ISSN 0974-9373)
- [47] G. S. Seth and **J. K. Singh**, Effects of Hall current and rotation on unsteady MHD Couette flow within a porous channel in the presence of a moving magnetic field, *Journal of Nature Science and Sustainable Technology*, **5(4)** (2011), 263-283. (ISSN 1933-0324)

PAPER PRESENTATION IN CONFERENCES/SEMINARS

- [1] "Investigation of thermal performance of MHD nanofluid flow within an asymmetric channel", Special Lecture Series organized by Siddharth University Kapilvastu on November 19, 2022.
- [2] "Energy dissipation and Hall effect on MHD convective flow of nanofluid within an asymmetric channel with arbitrary wall thickness and conductance" International Conference on Recent Advances in Fluid Mechanics (ICRAFM-2022) organized by Manipal Institute of Technology, MAHE, Manipal, INDIA, October 4-6, 2022

- [3] “Hall and induced magnetic field effects on MHD buoyancy driven flow of Walters’B fluid over a magnetized convectively heated inclined surface”, 65th Congress of the Indian Society of Theoretical and Applied Mechanics (ISTAM) organized by ISTAM, IIT-Kharagpur, INDIA in collaboration with GITAM University, Hyderabad, Telangana, INDIA, December 9-12, 2020.
- [4] “Impacts of the periodic wall conditions to the hydromagnetic convective flow of viscoelastic fluid through a vertical channel with Hall current and induced magnetic field”, International Conference on Advances in Science Engineering and Mathematics (ICASEM2020), Annamacharya Institute of Technology and Sciences, Rajampet, Andhra Pradesh, August 7-9, 2020.
- [5] “Hall and ion-slip effects on MHD free convective flow of a viscoelastic fluid through porous regime in an inclined channel with moving magnetic field”, International E-Conference on Emerging Advances in Mathematical and Physical Sciences (IECEAMPS-2020), Department of Physics and Mathematics, Hindu College Moradabad, U. P., June 28-30, 2020.
- [6] “Hydromagnetic mixed convection flow of a viscoelastic fluid over a magnetized vertical surface with Hall current and induced magnetic field effects”, Online International Conference on Mathematical Techniques & Applications, Department of Engineering Mathematics, Lakshmi Narain College of Technology, Bhopal, Madhya Pradesh, June 13, 2020.
- [7] “Steady MHD mixed convection flow of a viscoelastic fluid over a magnetized convectively heated vertical surface with Hall current, rotation and induced magnetic field effects”, 25th International Conference of International Academy of Physical Sciences (CONIAPS-XXV), Department of Chemistry, Guru Jambheshwar University of Science & Technology, Hisar-125001 (Haryana), December 29-31, 2019.
- [8] “Influence of Hall current and Wall Conductivity on Hydromagnetic Mixed Convective Flow in a Rotating Darcian Channel”, National Conference on Recent Developments of Mathematics in Industrial Applications, Department of PG Studies and Research in Mathematics, Kuvempu University, Shivamoga (Karnataka), April 11-12, 2019.
- [9] “Unsteady MHD Natural Convective Flow of a Rotating Walters’-B Fluid over an Oscillating Plate with Fluctuating Wall Temperature and Concentration” 21th International Conference of International Academy of Physical Sciences (CONIAPS-XXI), Department of Mathematics, Guru Jambheshwar University of Science & Technology, Hisar-125001 (Haryana), October 28-30, 2017.
- [10] “Unsteady MHD natural convection flow of a rotating viscoelastic fluid over an infinite vertical porous plate due to oscillating free-stream”, 20th International Conference of International Academy of Physical Sciences (CONIAPS-XX), Faculty of Science (Departments of Mathematics, Physics and Chemistry), Osmania University, Hyderabad, (INDIA), July 14-16, 2017.

- [11] "Influence of Hall current and Wall Conductance on Hydromagnetic Mixed Convective Generalized Couette Flow with Heat Transfer in a Rotating Darcian Channel", International Conference on Applications of Fluid Dynamics (ICAFD)", Department of Applied Mathematics, Indian Institute of Technology (ISM), Dhanbad, INDIA, December 19-21, 2016.
- [12] "Hall Effects on Unsteady MHD Couette Flow in a Rotating System in the Presence of an Inclined Magnetic Field", Conference on Recent Trends in Mathematics & Statistics, Department of Mathematics & Statistics, DDU Gorakhpur University, Gorakhpur (INDIA), March 12-13, 2012.
- [13] "Effects of Hall Current on Unsteady Hydromagnetic Couette Flow within a Porous Channel Due to Accelerated Movement of the Plate", National Meet of Research Scholars in Mathematical Sciences, Department of Mathematics, IIT-Kharagpur (INDIA), October 12-15, 2011.
- [14] "Unsteady Hydromagnetic Couette Flow within a Porous Channel with Hall Effects", 13th International Conference of the International Academy of Physical Sciences, University of Petroleum and Energy Studies, Dehradun (INDIA), June 14-16, 2011.
- [15] "Effects of Hall Current and Rotation on Unsteady Hydromagnetic Couette Flow within a Porous Channel", National Conference on Recent Trends in Pure & Applied Mathematics, Department of Mathematics & Statistics, DDU Gorakhpur University, Gorakhpur (INDIA), June 24-25, 2011.
- [16] "Steady Magnetohydrodynamic Couette Flow in a Rotating Medium", National Seminar on Recent Advances in Theoretical and Applied Seismology, Department of Applied Mathematics, ISM, Dhanbad (INDIA), March 27-28, 2009.

WORKSHOPS /RC/OP/SPECIAL LECTURES

- [1] Invited talk on the topic "Fundamental of Magnetohydrodynamics and Applications" in the one-week online faculty development program on "Applicability of the Mathematical Sciences in Emerging World" organized Department of Applied Sciences and Humanities, Invertis University, Bareilly, July 28-August 02, 2020.
- [2] Mentor to a student of the "Publons Academy Practical Peer Review Training Course", June 04, 2020.
- [3] "One Week Pedagogical Training for Teacher on Tools for Online Teaching Learning and Evaluation" organized by School of Mathematical Sciences, Swami Ramanand Teerth Marathwada University, Nanded-431606, July 01-06, 2020.
- [4] Three days online FDP on "Development of E-Content using Multimedia Tools" organized by Shree Venkateshwara Arts and Science College, Erode-638455 & Universal Teachers Academy during May 27-29, 2020.
- [5] Lectures on the topic "Sequence and Series" in the Special lecture series organized by IQAC, Vidyavathi Govt. First Grade College, Hiriyyur, March 04, 2020.

- [6] Special lecture on the topic “Basic Concepts of Topology” organized jointly by IQAC and Department of Mathematics, THSMS Govt. First Grade College, Sirguppa, Ballari-583121, February 22, 2020.
- [7] Special lecture on the topic “Differential Equations” organized by Nandi Institute of Management & Science, Ballari-583101, January 13, 2020.
- [8] Participated in 21 days residential training program equivalent to refresher course on “University and PG College MSc Teachers Training Program in Mathematics” organized by Centre of Excellence in Science and Mathematics Education, Indian Institute of Science, Challakere Campus at Kudapura, Chitradurga, Karnataka during June 16, 2019 to July 06, 2019. Based on the test conducted, I placed in the grade ‘A’.
- [9] Participated in “Instructional School for Teachers (IST)-Analysis and PDE” organized by National Centre for Mathematics, Mumbai in Indian Institute of Science (IISc), Bangalore during May 06-18, 2019.
- [10] Lectures on the topic “Partial Differential Equations and Complex Integrations” in the Special lecture series organized by IQAC, Vidyavathi Govt. First Grade College, Hiriyur, March 26-27, 2017.
- [11] Special lecture on “Differential and Difference Equations and Z-Transform” Department of Mathematics, School of Advanced Sciences, VIT University, Vellore, 9th November 2016.
- [12] Participated in Refresher Course in Soft Skill for Professional Excellence organized by HRDC, University of Hyderabad, Hyderabad, June 17-July 07, 2016 and obtained ‘A’ grade.
- [13] Delivered three invited lectures entitled “Magnetohydrodynamics and its Application” in National level Short Term Training Programme (STTP) on “Mathematical Modeling in Science and Engineering” organized by Department of Mathematics, National Institute of Technology, Raipur from July 02-06, 2014.
- [14] Participated in “National Environmental Awareness Campaign on Biodiversity Conservation” organized by UGC Academic Staff College, Aligarh Muslim University, Aligarh from December 19-20, 2013.
- [15] Participated in CXXVII-Orientation Programme organized by UGC Academic Staff College, Aligarh Muslim University, Aligarh from December 03-26, 2013 and obtained ‘A’ grade.
- [16] International Workshop on Computational PDE: Modeling and Simulation, Department of Mathematics, IIT-Madras, Chennai (INDIA), January 3-12, 2011.
- [17] National Workshop cum Training program on Advanced Numerical Technique and Applications, DST-Centre for Interdisciplinary Mathematical Science, Banaras Hindu University (BHU), Varanasi (INDIA), June 29-July 11, 2009.

EDITORIAL BOARD MEMBER/REVIEWER OF JOURNALS

S. No.	Name of the Journal	Editorial Board/Reviewer
1.	Mathematical Modelling of Engineering Problems (IIETA) http://iieta.org/Journals/MMEP/Editors%20Board	Editorial Board Member
2.	<u>Singh, Jitendra Kumar - Web of Science Core Collection</u>	Reviewer

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<https://scholar.google.co.in/citations?user=30JQFwAAAAJ&hl=en#> (Google Scholar)

<https://www.scopus.com/authid/detail.uri?authorId=57200241678> (SCOPUS)

<https://publons.com/researcher/N-4276-2017/> (Web of Science)

<https://www.researchgate.net/profile/Jitendra-Singh-36> (ResearchGate)

<https://orcid.org/0000-0002-7581-0564> (ORCID)

MEMBER OF PROFESSIONAL BODIES

S. No	Name of the professional body	Membership No.
1.	International Association of Engineers (IAENG), Hong Kong.	109412 (Life Member)
2.	Indian Society of Mathematics and Mathematical Sciences (ISMAMS), Gorakhpur (India).	LM/318 (Life Member)
3.	Indian Mathematical Society, Pune (India)	L/2016/22 (Life Member)
4.	International Academy of Physical Sciences, Allahabad (India)	N19357 (Life Member)
5.	Society of Applied Mathematics (SAM), Department of Applied Mathematics, Indian School of Mines, Dhanbad (Jharkhand), India.	SAM/AM/2010-11/19

(Jitendra Kumar Singh)