

Dr.B.V.Swarnalathamma

Professor & Head of the Department
J B Institute of Engineering & Technology
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**Academic Qualification :**

- ❖ Ph.D in Mathematics in 2008 from Sri Padmavathi Mahila University (Women's University), Tirupati.
- ❖ M.Sc in 2003 from Sri Krishnadevaraya University.
- ❖ B.Sc (M.P.Cs) in 2001 from Sri Krishnadevaraya University.
- ❖ Intermediate(M.P.C) in 1998 from Board of Intermediate Education, Hyderabad
- ❖ S.S.C in 1996 from Secondary board of education, Andhrapradesh.

Academic and Research Experience

Research: 16 years

Teaching: 17 years.

- ❖ Working as an Professor since 2021 to till date, in J.B. Institute of Engineering & Technology (UGC Autonomous), Yenkapally, Moinabad(Md), Hyderabad.
- ❖ Worked as an Associate Professor from 20011 to 2021 in J.B. Institute of Engineering & Technology (UGC Autonomous), Yenkapally, Moinabad(Md), Hyderabad
- ❖ Worked as an Assistant Professor from 2007 to 2011 in J.B. Institute of Engineering & Technology (UGC Autonomous), Yenkapally, Moinabad(Md), Hyderabad.

Ph.D Thesis Title: On Semirings and Ordered Semirings

Area of Specialization : Algebra - Semirings & Ordered Semirings

: Fluid Mechanics - Magneto Hydro Dynamics Flows(MHD Flows)

No. of publications

(a) No. of Journal publications : **15**

(b) No. of Conference papers : **09**

(c) No. of Patents / Copyrights published : **01**

(d) Research Projects : **01**

PATENT : Technique for Approximating Solutions to Non linear Differential Equations with Boundary layer Phenomena, 202341077355 A, Published on 22-12-2023, INDIA

Research Projects and Other Grants : Minor Research Project entitled “ Peristaltic Pumping of Non-Newtonian Fluids in a Curved Channel / Tube with Complaint Walls” from granted by UGC dated March 2014 -2016.

Publications (List of papers published in SCI/Scopus Journals, in year wise descending order).

S.No.	Author(s)	Title	Name of Journal	Volume	Page	Year
1	M. Veera Krishna, B.V. Swarnalathamma & D.M. Praveen Babu	Chemical reaction on MHD Convective flow of second -grade fluid through a vertical porous channel with non- uniform wall temperature	Modern Physics Letters B, DOI: 10-1142/S0217084923500914	2350091	1-28	2023
2	B.V. Swarnalathamma, et, al.,	Combined impacts of Radiation absorption and Chemically reacting on MHD Free Convective Casson Fluid flow past an infinite vertical inclined porous plate	Journal of Computational Mathematics and Data Science	5	1-16	2022
3	B.V. Swarnalathamma et, al.,	Hall current effects on MHD flow of chemically reacting fluid through a porous medium with heat source	Wiley Periodicals LLC(Heat Transform)		1-20	2022
4	D.M. Praveen Babu & B.V. Swarnalathamma	Finite element analysis for Hall effects on MHD flow of water based nanofluid past an infinite vertical porous surface	NOVYI MIR Research Journal	6(6)	13-28	2021
5	B.V. Swarnalathamma et, al.,	Heat and Mass transfer on Oscillatory MHD flow of Second grade fluid through Porous media	Journal of Shanghai Jiaotong University	7(5)	41-60	2021
6	B.V.Swarnalathamma	Heat Transfer on MHD Convective Flow Through Porous Medium Between Two Concentric Cylinders	Journal of Shanghai Jiaotong University	16(9)	386-409	2020
7	B.V. Swarnalathamma, et, al.,	Time dependent permeability, Oscillatory suction and Hall effects on MHD Free convective flow through Porous medium over an infinite vertical plate	Journal of Xidian University	14(4)	2009-2032	2020
8	B.V.Swarnalathamma, et, al.,	Hall effects on Unsteady MHD Rotating flow of Second grade fluid	Journal of Xi'an University of	12(3)	4290-4312	2020

		through Porous medium between two vertical plates	Architecture & Technology			
9	M.Veera Krishna, B.V.Swarnalathamma and Ali J. Chamkha	Heat and mass transfer on MHD Chemically Reacting flow of a Micro-polar fluid through a Porous medium with Hall effects	Special Topics & Reviews in Porous media: An International Journal	9(4)	347-364	2018
10	B..V.Swarnalathamma, et, al.,	Combined Effects on Unsteady MHD Convective flow of Rotating Viscous Fluid through a Porous Medium over a Moving Vertical Plate	International Journal of Applied Engineering Research	13(11)	9245-9259	2018
11	B.V.Swarnalathamma	Heat and Mass transfer on MHD flow of Nanofluid with Thermal slip Effects	International Journal of Applied Engineering Research	13(18)	13705-13726	2018
12	M.Veera Krishna, B.V.Swarnalathamma	Hall effects on Unsteady MHD Free Convection flow of an incompressible electrically conducting Second grade fluid through a porous medium over an infinite rotating vertical plate fluctuating with Heat Source/Sink and Chemical reaction	IOSR Journal of Mathematics	12(2)	8-24	2016
13	M.Veera Krishna, B.V.Swarnalathamma	Heat and Mass transfer on the peristaltic flow of an incompressible electrically conducting Williamson fluid through a porous medium in a symmetric channel with Hall current effects and inclined magnetic field	International Journal of Scientific & Engineering Research	6(9)	941-957	2015
14	B.V.Swarnalathamma	Structure of Semirings with Integral Multiple Property	International Journal of Advanced Engineering and Global Technology	3(12)	1542-1546.	2015
15	Archana & B.V.Swarnalathamma	On The Additive And Multiplicative Structure Of Semirings	International Journal of Mathematical Achive	3(7)	2735-2738	2012

Conferences (List of papers published in Conference Proceeding, in year wise descending order).

S.No.	Author(s)	Title	Name of Journal	Volume	Page	Year
1	M. Veera Krishna, B. V. Swarnalathamma, and J. Prakash	Radiation Absorption on MHD Convective Flow of Nanofluid over a Moving Vertical Porous Plate	© Springer Nature Singapore Pte Ltd. 2021B. Rushi Kumar et al. (eds.), Advances in Fluid Dynamics, Lecture Notes in Mechanical Engineering	https://doi.org/10.1007/978-981-4308-1_78	1013-1025	2020
2	B. V. Swarnalathamma, M. Veera Krishna, and J. Prakash	Hall Effects on MHD Free Convective Flow Through Porous Medium in Vertical Channel	Springer Nature Singapore Pte Ltd. 2021B. Rushi Kumar et al. (eds.), Advances in Fluid Dynamics, Lecture Notes in Mechanical Engineering	https://doi.org/10.1007/978-981-4308-1_79	1027-1040	2020
3	M. Veera Krishna and B. V. Swarnalathamma	Heat and mass transfer on Unsteady MHD oscillatory flow of Blood through porous arteriole	Applications of Fluid Dynamics, Lecture Notes in Mechanical Engineering (Springer)	XXII	207-224	2018
4	B. V. Swarnalathamma and M. Veera Krishna	Hall effects on MHD flow of heat generating/absorbing fluid through porous medium in a Rotating parallel plate channel	AIP Conference Proceedings	1859(1)	020091	2017
5	M. Veera Krishna and B. V. Swarnalathamma	Hall effects on unsteady MHD Reactive flow of Second grade fluid through porous medium in a rotating parallel plate channel	AIP Conference Proceedings	1859(1)	020097	2017
6	M. Veera Krishna and B. V. Swarnalathamma	Peristaltic MHD Convective flow of Walter's-B Fluid through a Biddable walled channel with Slip Effect	IOP Conference Series: Material Science and Engineering, IOP Publishing	225(1)	012063	2017
7	M. Veera Krishna and B. V. Swarnalathamma	Convective Heat and Mass transfer on MHD Peristaltic flow of Williamson fluid with effect of	AIP Conference Proceedings	1728(1)	020461	2016

	ma	Inclined Magnetic field				
8	B.V.Swarnalathamma and M.Veera Krishna	Peristaltic hemodynamic flow of couple stress fluid through a porous medium under the influence of Magnetic field with slip effect	AIP Conference Proceedings	1728(1)	020603	2016
9	B.V.Swarnalathamma & T.Vasanthi	On the Additive and Multiplicative Structure of ordered Semirings	Proceedings of the 5th Asian Mathematical Convention (AMC 2009) International Seminar on Recent Trends in Algebra and its and Related Topics”, Department of Mathematics, Bursar University Sains Malaysia, MALAYSIA		262-265	2009

B V Swarnalathamma has also attended multiple FDPs and conferences across the world. She has also received travel grants from CSIR and AICTE for international conferences.