Curriculum Vitae

Full Name	Dr. Ashok Kumar
Designation	Associate Professor
Department	Mathematics
Campus	Birla Campus Sinagar
Telephone	
Mobile	09917254135
Email	ashrsdma@gmail.com kumarashokfma@hnbgu.ac.in



Education Qualification	1. Ph.D (20	11), I. I. T Roorkee	·
	2. M.Sc (20	04), I. I. T Roorkee	
	3. B.Sc (20	02), C C S University Meerut	
Teaching Experience	11.5 Years	Research Experience	15 Years
• 15-01-2011 to 02-04- 2012	Assistant Professor	Government W. PG College Kandhala, Samli (UPPSC)	Regular
• 03-04-2012 to 04-09- 2013	Assistant Professor	NIT Jalandhar	Regular
• 05-09-2013 to 14-05- 2022 (forenoon)	Assistant Professor	H.N.B. Garhwal University Srinagar	Regular
• 14-05-2022 (Afternoon)	Associate Professor	H.N.B. Garhwal University Srinagar	Regular

Areas of Interest/ Specialization

- 1. Hydrodynamic Stability
- 2 Computational Fluid Dynamics.
- 3. Application of Spectral and Spectral Element Methods
- 4. Numerical Solution of ODE and PDE

Honors & Awards

- 1. NET(National Eligibility Test)-JRF(Junior Research Fellow)-CSIR Dec. 2004, SPM-Call(List of Top 10% Candidates of NET).
- 2. NET-JRF (CSIR) Dec. 2005.
- 3. NET-JRF (CSIR) Dec. 2007
- 4. GATE(Graduate Aptitude Test in Engineering)-2005 AIR (All India Rank)-360.
- 5. GATE-2006 AIR-196.
- 6. GATE-2007 AIR-619.
- 7. GATE-2008 AIR-213.
- 8. Junior Research Fellow (CSIR fellowship) 2004- 2006, IIT Roorkee.
- 9. Senior Research Fellow (CSIR fellowship) 2006 -2010, IIT Roorkee.

SUMMER SCHOOL/GIAN COURSE/REFRESHER COURSE ATTENDED:

- Instructional School on Partial Differential Equations and National Symposium on Hyperbolic PDEs, Department of Mathematics, IIT Bomby, 22-06-2008 to 17-07-2008
- 2. QIP Program on Interaction of Academicia-Industry on Mathematical Modelling, Department of Mathematics, IIT Roorkee, 31-03-2012.
- 3. Refresher Course in Mathematical Sciences, CPDHE Human Resource Development Centre, University of Delhi, 29-08-2016 to 20-09-2016.
- 4. A GIAN Course On Stability of Vertex and Non-isothermal Parallel Flow, Department of Mathematics, IIT Roorkee, Dec. 04 to 09, 2017.
- 5. Two-week refresher course in Mathematics, Department of Mathematics, Ramanujan College, University of Delhi, 16-03-2021 to 30-03-2021.

Research Projects/ MoU

- 1. "Instability of Poiseuille flow in a vertical pipe filled with porous medium", **SERB**, **Rs.** 27. 38,400/-, (NO. SB/EMEQ-159/2014), Cpompleted
- 2. "Linear stability of buoyancy assisted mixed convective flow in a vertical pipefilled with porous medium". UGC-START UP, Rs. 6,00,000 Completed

EVENT COORDINATOR:

- TEQIP-III SPONSORED Short Term Training Programme on Advanced Computational Techniques in Engineering Sciences & Mechanics organized by NIT Srinagar during 24-28 February, 2020.
- 2. **DST-INSPIRE Program** Organized by HNB Garhwal University Srinagar in **2015-16**, **2016-17**, **2017-18**, **2018-19**, **and 2019-2020**.

Administrative Experience

- 1. Assistant Proctor
- 2. Co-Coordinator DST-INSPIRE Program
- 3. Co-coordinator SC/ST/OBC Remedial Coaching
- 4. Member of Anti-discrimination Cell
- 5. Assistant Warden

Scientific Visits Abroad/International Collaboration

1. Imperial College London (UK)

Research Papers: National/International Journals

Total Number : 26
Best Research Papers:

S.No.	Author(s)	Title	Name of Journal	Volume	Page	Year
1.	Km. Renu,	Influence of Prandtl number on	Physics of Fluid	33 (5)	054112	2021
	Ashok	mixed convective flow in a vertical	IF: 3.521			
	Kumar,	pipe filled with porous medium: A				
	Abhishek K.	linear stability analysis				
	Sharma					
2.	AS Negi, B	Transportation of TiO2/GO–H2O	Indian Journal	12	https://doi.	2021
	Kumar,	hybrid nanofluid between two discs	of Physics		org/10.100	
	Ashok		(Springer) IF:		<u>7/s12648-</u>	
	Kumar, C		1.947		<u>021-</u>	
	Kumari, K				<u>02212-z</u>	
	Prachi, AJ					
	Chamkha					
3.		Numerical analysis of nonlinear	Mathemat	15 (3),	269-281	2021
	Kumar, HM		ical			
		equation arising in quantum field	Sciences			
	Ashok Kumar	theory via Caputo–Fabrizio	(Springer)			
		fractional operator	IF: 1.986			
4.	Н. М.	Deeper investigations of the (4+1)-	Int. J. of	34(17)	2050152	2020
	Baskonus, A.	dimensional Fokas and (2+1)-	Modern			
	Kumar,	dimensional Breaking soliton	Physics B			
	Ashok	equations	IF: 1.219			
	Kumar, W.					
	Gao					

5.	Km. Renu,	Effect of radiation on hydro	Journal of	142 (4),	042701:1-	2020
	Ashok	magnetic mixed convective flow in			16	
	Kumar,	a vertical channel filled with porous	Transfer			
		media: a thermal no equilibrium	(ASME)			
		approach	IF:			
			2.021			
6.		Thermo-solutal natural convection	Advances in	7 (5),	644-662	2015
	P. Alam and P.	in an anisotropic porous enclosure	Applied			
	Fartyal	due to non-uniform temperature and	Mathematics and			
		concentration at bottom wall	Mechanics			
			IF: 1.727			
7.	Pravez Alam,	Numerical investigation of natural		17(6)	2403-2414	2012
	Ashok	convection in a rectangular				
	Kumar, S	enclosure due to partial heating and				
	Kapoor, SR	cooling at vertical walls	Numerical			
	Ansari		Simulation			
			IF: 4.260			
8		Non-Darcy mixed convection in a	Int. J. of	50 (5),	725-735	2011
		vertical pipe filled with porous				
	Kumar	medium	Sciences			
			(Elsevier)			
			IF: 3.744			
9		Natural convection in an anisotropic		131 (7)	072601:1-	2009
	and P.Bera	porous enclosure due to non-			13	
		uniform heating from the bottom	IF: 2.021			
		wall				
10	K Renu,	Chebyshev Spectral Collocation	International	7(3),		2021
	Ashok	Method for Magneto Micro-Polar	Journal of Applied		-21	
	Kumar, AS Negi	Convective Flow Through Vertical Porous PipeUsing Local ThermalNon-	and Computational Mathematics,			
	Negi	equilibrium	(Springer)			
		Approach	(Springer)			
11	Km.Renu,	Effect of Transverse Hydromagnetic	Special Topics &	12 (2),	1-23	2021
	AshokKuma	and Media Permeability on Mixed	Reviews in Porous			-
	r, A Kumar,	Convective Flow in a	Media: An			
	J Kumar	ChannelFilledbyPorous	International			
		Medium	Journal (Begell			
		1	House Publication			
			TICAL			
12	AV D=1 1	Isotronio mel 1	USA)	10(2)	660 692	2021
12	AK Prasad, J	1 0	Arabian Journal of	10(3),	669-683	2021
12	AK Prasad, J Kumar, Ashok	withcompactness and	,	10(3),	669-683	2021

Books: 05

- 1. Linear Algebra, Book (ISBN: 978-93- 87025-53-0) (MEDTECH A division of Scientific International Publication)
- 2. Differential Calculus Book (ISBN: 978-93-887025-54-7) (MEDTECH A division of Scientific International Publication)
- 3. Integral Calculus Book (ISBN: 978-93- 86800-08-4) (MEDTECH A division of Scientific International Publication)
- 4. Real Analysis Book (ISBN: 978-93-87025-51-6) (MEDTECH A division of Scientific International Publication)