GIDC DEGREE ENGINEERING COLLEGE FACULTY PROFILE

Name of Teaching Staff	RAJIV KUMAR SINGH		
Designation	Assistant Professor		
Department	Applied Science and Humaniti	es	· · · · · · · · · · · · · · · · · · ·
Date of Joining	2016-08-01		
Qualifications with Class/Grade	UG	PG	PhD
	B. Sc., II	M. Sc., I	Awarded, 2010 Banaras Hindu University
	CSIR UGC NET 2005		
Total Experience in Years	Teaching	Industry	Research
	8	0	8
Area Of Interest	Fluid Mechanics, Magnetohydr	odynamics.	

Papers Published in	n Journals	National	01	International	15
Detail Of Public	ations	Heat and M Transient I heated/coold Research, 1 Effect of In vertical wall MHD flow Magnetohyd Transient N ramped ten Mechanics, Effect of in annuli, Acta MHD free Mathematic A Note on Journal of I Transient fr Int. J. Indus (IOSR-JM), Magnetohyd between ver Transient fr IOSR Journ An Approxit Successive I Heat Transf Magnetohyd vertical ann Study on re Studies (Con Study on fe	Lass Transfer, 31, hydromagnetic r ed asymmetrically 4(3), 247-262, 200 duced magnetic f ls, Heat and Mass of a Micropolar f drodynamics Plas (HD free convection mperature, Intern 6, 69-79, 2010. Induced magnetic Mechanica Sinic convective flow f s and Mechanics (Water Transport Mathematics (IOS) ee convective flow strial Mathematic gnetic Field Effects 10, 76-85, Nov-Dec drodynamic transistical walls, Ain Sh we convective MH mal of Mathematic mate Solution of Linearisation Meth fer and Fluid Flow drodynamic nature uli, communicated pmunicated) (Else municated) (Else	hatural convection between , Journal of Magnetohydro 09. ield on hydromagnetic free f transfer (Springer), 46, 522 Fluid with asymmetric wall ma, Space Research (Nova) tive flow near a semi-infin- national Journal of App field on natural convection (Springer), 28(2), 315-322 past a semi-infinite vertical (Springer), 33 (9), 1207-122 Phenomenon by Homotopy (R-JM), ISSN: 2278-5728. 4 w of a micropolar fluid bet s, 5(2), 87-95, 2013. s on Mixed Convection, IOSE 2014 tent natural convective flow pams Engineering Journal (E D flow through porous mean cs (IOSR-JM), 11, 52-58, 202 Fingering Phenomenon arise hod, Proceeding Internation y, 2018 al convection of micropolar d in Propulsion and Power R o yield forecasting methods palysis method, Ain Shan	en two vertical walls dynamics Plasma, Space convective flow between 3-529, 2010. temperatures, Journal of 0, 15 (1), 101-110, 2011. nite vertical wall having plied mathematics and on in vertical concentric 3, 2012. permeable wall, Applied 2, 2012. Analysis Method, IOSR 4(6), 50-53, 2013. ween two vertical walls, R Journal of Mathematics w of a micropolar fluid Elsevier), XXX, 2015. lium in slip flow regime, 15 sing in Porous Media by al Conference Numerical r fluid throughconcentric Research (Elsevier), 2018 c, Journal of Agriculture
Papers Presented in C	Conferences	National	08	International	01

>	"MHD mixed convection between two parallel walls", National Conference on
	Modern Analysis and Allied Area, 23-24, Feb, 2007, Department of
	Mathematics, Banaras Hindu University, Varanasi.
>	"Transient hydromagnetic natural convection between two vertical walls
	heated/cooled asymmetrically", National Conference on Mathematical Modeling
	and Simulation, January, 9-11, 2009 Jiwaji University, Gwalior, ABV Indian
	institute of information technology & amp; management, Gwalior.
\triangleright	"Transient natural convection flow between two vertical walls filled with porous
	material having a variable porosity in presence of induced magnetic field,
	Mathematical Modeling of Real Life Problems, Dec, 22-24, 2009, Mathematical
	Society, Banaras Hindu University, Varanasi.
>	"Effect of induced magnetic field on natural convection in vertical concentric
	annuli". Mathematical Modeling of Real Life Problems, Dec, 22-24, 2009,
	Mathematical Society, Banaras Hindu University, Varanasi.
×	"MHD free convective flow past infinite vertical permeable walls", Recent Trends
	in Analysis and Modeling, 28-29, Nov, 2010, 26 th Annual Conference of the
	Mathematical Society Banaras Hindu University, Varanasi.
\blacktriangleright	"MHD transient free convective flow of a micropolar fluid between two vertical
	walls, Analysis, Geometry, and Application, 7-8, March, 2013, Department of
	Mathematics, Sardar Patel University, Vallabh Vidyanagar.
	A Note on Magnetohydrodyamic Mixed Convective Flow", 30th Annual National
	Conference of the Mathematical Society-BHU, Varanasi January 30-31, 2015,
	Mathematical Society, Banaras Hindu University, Varanasi, India.
	55 0
	Ground Water Recharge Problem by Spreading in Fluid Flow Through Porous
	Media (: ISCASE-521), International Scientific Conference on applied Sciences
	and Engineering, 20-21December, 2014 at Kuala Lumpur, Malasiya.
	ivited Talk:
	"Summer school-2011 on linear Algebra" 30, May to 11, June, 2011, School of
	Mathematics, Statistics and Computer Science, Central University of Bihar, Patna.
	"Short Term Training Program (STTP) on Computational Fluid Dynamics for
	Engineers and Scientists (CFDFES)", 08-12, July, 2013, Department of Applied
	Mathematics & amp; Humanities Sardar Vallabhbhai National Institute of
	Technology, Surat.
×	"National Workshop on Problem Solving Techniques in Mathematics (NWOPST -
	2015)" February 21-26, 2015, Department of Mathematics, Faculty of Science, The
	Maharaja Sayajirao University of Baroda, Vadodara-390002.
×	F, 55
	(RTMST-2017), 2-6, January, 2017, Department of Applied Science and
	Humanities, GIDC Degree Engineering College, Navsari.

	 Invited Talk: Real Life Application of Mathematic in Science & amp; Technology, Department of Applied Science and Humanities, GIDC Pacific School of Engineering College, Palsana, Surat, 3 January, 2018 Designing of Mathematical Model in Different fields Of Engineering' Department of Applied Science and Humanities, GIDC Degree Engineering College, Navsari March 19th- 23rd, 2018. 	
	Workshop (two weeks)	
	BHU summer School of Computing 2008, 07-19, April, 2008, Department of Physics, Banaras Hindu University, Varanasi.	
	National Workshop Com Training Program on Advanced Numerical Techniques and Applications, 29, June, 11, July, DST- Central for Interdisciplinary Mathematical Sciences, Banaras Hindu University, Varanasi.	
	Workshop (one week)	
	LATEX and Other Open Source Software, 01-07, April, 2009, DST-Central for Interdisciplinary Mathematical Sciences, Banaras Hindu University, Varanasi.	
STTP/WORKSHOP/	Computational Thermal and Fluid Science & Its Engineering Applications, 25-30, May, 2009, Institute of Technology, Banaras Hindu University, Varanasi.	
CONFERENCE / SEMINAR Organize or Participated	 National Workshop Com Training Program on Recent Trends in Fluid Mechanics, 06-12, July, 2010, DST- Central for Interdisciplinary Mathematical Sciences, Banaras Hindu University, Varanasi. 	
	National Workshop Cum Training Program on Computing Technique and Application, 01-07, July, 2012, DST- Central for Interdisciplinary Mathematical Sciences and Department of Mathematics, Faculty of Science, Banaras Hindu University, Varanasi.	
	Mathematical Methods for Physical Sciences and Engineering, 6-10, May, 2013, Department of Applied Mathematics & Humanities and Department of Applied Physics, Sardar Vallabhbhai National Institute of Technology, Surat.	
	Short Term Training Program (STTP) on Computational Fluid Dynamics for Engineers and Scientists (CFDFES), 08-12, July, 2013, Applied Mathematics and Humanities, SVNIT, Surat.	
	 Current Trends in Computational Method for PDE and fluid Mechanics, 19- 23, August, 2013, Applied Mathematics and Humanities, SVNIT, Surat. 	

	International Conference & Seminar
	 Optimization and Its Applications, 16-18, Feb, 2010, Department of Mathematics, Faculty of Science, Banaras Hindu University, Varanasi. Indian Society of Theoretical and Applied Mechanics, 19-21, Dec, 2011, Department of Applied Mathematics & Humanities, Sardar Vallabhbhai National Institute of Technology, Surat. Indian Society of Theoretical and Applied Mechanics, 17-20, Dec, 2012, Department of Applied Mathematics & Department of Mechanical Engineering, Humanities, Defence Institute of Advanced Technology, Pune. National Conference & Seminar XXI Annual Conference of the Mathematical Society, 23-24, January, 2006, Banaras Hindu University, Varanasi. National Conference & Workshop on High Performance Computing & Applications HPCA-2009, 09-11, Feb, 2009, Department of Computer Science, Banaras Hindu University, Varanasi. Analysis and Its Applications(AA-BHU-2009), 19-21, March, 2009, Department of Mathematics, Faculty of Science, Banaras Hindu University, Varanasi.
Projects Guided	Minor research project is ongoing on "A study on magnetohydrodynamic flow under different physical conditions" funded by GUJCOST, Gandhinagar.
Books Published / IPRs/ Patents	 Book: <i>A magnetohydrodynamic free/mixed convective flow</i>? Publisher: Lambert Academic Publishing ISBN: 9786138270010 6138270010 Chapters: <i>MHD Flow of a Micropolar Fluid with Asymmetric Wall Temperatures</i>,

	 Chapter 4, 2012. (Authors: S.K. Ravi, A.K. Tiwari and R.K. Singh), Book Name: Journal of Magnetohydrodynamics Plasma, Space Research ISSN No. 978-1- 61942-079- 3 Publisher: Nova Transient Hydromagnetic Natural Convection Between Two Vertical Walls Heated/Cooled Asymmetrically, pp. 57-74 (R.K. Singh and A.K. Singh) <u>https://www.novapublishers.com/catalog/product_info.php?products_id=205</u> 04 Book Name: Perspectives in Magnetohydrodynamics Research ISSN No. 978-1- 61209-087- 0 Publisher: Nova
Professional Memberships	Mathematical Society of BHU, Varanasi
Consultancy Activities	NA
Awards	 First prices on Hindi essay writing, Central University of Bihar, 2012 Best paper award, International Scientific Conference on applied Sciences and Engineering, 20-21, December, 2014 at Kuala Lumpur, Malasiya
Grants Fetched	₹ 2,00000 by GUJCOST, Gandhinagar
Interaction with Professional Institutions	NA