



JSS Mahavidyapeetha

**JSS Academy of Technical Education**

Dr. Vishnuvardhan Road, Srinivasapura post Bangalore 560060

www. Jssateb.ac.in



## FACULTY PROFILE

Department: Engineering Mathematics

### 1. Personal Details

NAME	Dr . C V Vinay	
DEPARTMENT	Mathematics	
DESIGNATION	Professor	
PHONE	+91 9844191 323,	
EMAIL ID	<a href="mailto:hodmaths@jssateb.ac.in">hodmaths@jssateb.ac.in</a>	
Date of Joining (JSSATEB)	20-11-1997	

### 2. Experience

Total Experience in Years	Teaching: 27 Years	Industry: Nil	Research: 12 Years
---------------------------	--------------------	---------------	--------------------

### 3. Qualifications

COURSES	SPECIALIZATION	Year of Award	INSTITUTION	UNIVERSITY
B.Sc.,	PCM	1993	Sri Jagadguru Renukacharya College of Science Arts And Commerce, Bangalore, 560009,Karnataka INDIA	Bangalore University, Karnataka
M.Sc.	Magneto Hydrodynamics	1995	Central College,560001 Karnataka INDIA	Bangalore University, Karnataka
Ph.D.	Fluid Mechanics	2005	Central College,560001 Karnataka INDIA	Bangalore University, Karnataka
Post Doc.	---			

### 4. Research & Publications

Papers Published in Web of Science indexed Journals	International: 08	National: 00
Papers Published in SCOPUS indexed Journals	International: 05	National: 00
Papers Published in other Journals	International: 03	National: 02
Papers Presented in Conferences / Symposium	International: 05	National: 01

Books / Book chapters Published	Name of the book: Publisher: Year of Publication: Nil
------------------------------------	---

## 5. Research Guidance

PhD Guide? Give field & University	Yes, Fluid Mechanics	University: a. Visvesvaraya Technological University, Belagavi,
PhDs / Projects Guided	Ph.D. Awarded: 02 (Two) Guiding: 01 (Two)	Projects at Master's Level: Nil Projects at Bachelor's Level: Nil

## 6. Grants

- i. Funds Received (Projects) : Nil
- ii. Patents: Nil
- iii. Consultancy: Nil

## 7. Awards Received: Nil

## 8. Publications

### i. International Journals

Sl. No.	Title of the paper	Name(s) of Author(s)	Name of the Journal	Volume No. Issue No. Year	WOS / Scopus / Both	Impact Factor	Publisher
1	(2024). Comparative heat transfer analysis of Fe <sub>3</sub> O <sub>4</sub> /Graphene-water hybrid nanofluid in unsteady hydrodynamic Lapwood-Brinkmann Forchheimer medium over a curved elongating region.	Roopa, K. R., Dinesh, P. A., Yadav, S., Vinay, C. V., & Subrahmanyam, C.	International Journal of Ambient Energy,	45(1), 2304714. (2024)	Scopus	3.56	Taylor and Francis
2	Soret and Dufour effect on convection flow of Casson fluid in a channel.	Shilpa, B. V., Chandrashekhar, D. V., Dinesh, P. A., Vinay, C. V., Raghavendra, C. G., & Giresha, B. J.	Journal of Thermal Analysis and Calorimetry,	147(24), 14939-14951. (2022)	Both	4.4	Springer
3	The Influence of Drag on Nonlinear Oscillatory Flow through Concentric Annulus	Umadevi, B., Dinesh, P. A.	Molecular & Cellular Biomechanics,	18(4)2021	WOS	0.34	Tech Science (USA)
4	Numerical Approach to interpret the attributes of porous Journal bearings using couple-stress fluid	Shalini.M. Patil, Dinesh P. A	Industrial Lubrication and Tribology	73(2), 2020	Both	1.23	Emerald
5	The Analytical	Umadevi. B	Advances in Applied	Chapter	Scopus	0.14	Springer

	study of velocity slip on two phase flow in an eccentric annular region	Dinesh P. A	Mechanical Engineering	26,2020			
6	Multigrid Solution to analyze the effect of roughness for Modified Reynolds equation	Shalini.M. Patil, Dinesh P. A	Advances and Applications in Mathematical Sciences.	18(10),2019	WOS	--	Mili
7	Numerical Solution of Modified Reynolds Equation to study the roughness effects between two parallel plates	Shalini.M. Patil, Dinesh P. A	World Applied Sciences journal	35(5),2017	Scopus	0.47	IDOSI Publications
8	The Effect of Couple Stress on Hydrodynamic Rotating Flow	Umadevi. B Dinesh P. A	Procedia Engineering	127,2015	WOS	0.216	Elsevier
9	Mass Transfer in an Eccentric Annular Region through Diffusion	Umadevi. B Dinesh P. A and Indira Rao	Molecular and Cellular Biomechanics	11(2), 2014	WOS	0.88	Tech Science Press(USA)
10	Numerical study of Surface roughness and Magnetic field between roughness and porous rectangular plates	Ramesh B K, Shalini.M. Patil Dinesh P. A	Mathematical Problems in Engineering	ID 91581,2013	Both	1.1	Hindawi publishing corporation
11	Frontogenesis in Turbulent flow through porous media using nonlinear Forchheimer Equation	Rudraiah N	International Journal of Non Linear Mechanics	42(1),2007	WOS	1.382	Elsevier

ii. **National Journals** : Nil

iii. **Conferences**

Sl. No.	Title of the paper	Name(s) of Author(s)	Name of the Journal	Volume No. Issue No. Year	WOS/ Scopus	Impact Factor	Publisher
1	Influence of Non-similar Heating on Nanofluid Buoyant Convection in a Tilted Porous Parallelogrammic Geometry. In Cham:.	Vishwanatha, S., Vinay, C. V., Sankar, M., & Reddy, N. K	International Conference on Recent Developments in Mathematics (Trends in Mathematics)	Vol 2, pp 325-333, (2024)	Scopus	--	Springer International
2	Mathematical Model for Frontogenesis in turbulent flow through porous media	N. Rudraiah and Ranganna G	International Archives of Photogrammetry and Remote Sensing	XXX111, B7, 1999	Scopus	0.2	Copemicus

**iv. Workshops /Conferences Attended**

Sl. No.	Name of the workshop / Conference	Organiser	Date
1	Chaired a Technical session at International conference on Modelling, Simulations & optimization of energy systems	Canadian University, Dubai, UAE	16-17 June 2023
2	Presented a research paper at International conference on Modelling, Simulations & optimization of energy systems	Canadian University, Dubai, UAE	16-17 June 2023
3	One Week International Faculty Development Programme on "Mathematics in Real, Applied and Computational Domains" organized by the, from	Department of Mathematics, School of Science and Humanities, Sathyabama Institute of Science and Technology, Chennai	3 - 8 July, 2023.
4	One Week Online Faculty Development Programme on "Taking Research to Next Level	Sri Venkateshwara College of Engineering,, Bangalore	26-30 <sup>th</sup> Sept 2022
5	Charied a session at the International conference on Recent developments in Mathematics	Canadian University, Dubai, UAE	24-26, August 2022
6	Presented a research paper at 4 <sup>th</sup> International Conference on Frontiers in Industrial and Applied Mathematics	Saint Longowal Institute of Engineering and Technology, Longowal, Punjab 148106	21.12.2021 to 22.12.2021
7	One week FDP on Mathematical Developments in Cryptography and Data Science	Ramaiah Institute of Technology, Bangalore 560054	09.08.2021 to 13.08.2021
8	Two Week FDP on Research Advances In Mathematics and its Applications	Sathyabama Institute of Science and Technology, Chennai,	02.08.2021 to 14.08.2021
9	Two weeks AICTE eSIP online student Induction programme	AICTE, New Delhi	08.11.2020 to 20.11.2020
10	One week FDP on "Research Proposal Writing and Opportunities in the field of Science , Engineering and Management"	Bangalore Institute of Technology, Bangalore 560004.	06.07.2020 to 11.07.2020
11	National Webinar on "Fluid Mechanics and its Applications in Engineering Science"	PES Institute of Technology and Management, Shivamogga,577204.	24.06.2020 to 27.06.2020
12	Chaired a session in the National Conference on Recent Trends in Science, Engineering and Management	Ambedkar Institute of Technology, Bangalore-560056.	7-8 <sup>th</sup> June 2019
13	Numerical Methods and its Applications in Research	Centre for Interdisciplinary Research,JSSATEB-560060.	04.07.2018
14	FDP on Advanced Engineering Applications of Integral Transforms, Wavelets and Stochastic Process	Ramaiah Institute of technology, Bangalore-560054.	31 <sup>st</sup> to 5 <sup>th</sup> August 2017
15	FDP on Discrete mathematics, Modelling, &Computational techniques in Science and Engineering	Ramaiah Institute of technology, Bangalore-560054.	16 <sup>th</sup> to 21 <sup>st</sup> January, 2017
16	Workshop on Accreditation Process for Technical Institutions	JSSATE Bangalore-560060.	26 <sup>th</sup> and 27 <sup>th</sup> August 2016
17	Wolfarm technology conference	Wolfarm, Hotel Le Marvella, Bangalore.	18 <sup>th</sup> January 2016
18	National Symposium on Mathematical Methods and Applications	Indian Institute of Technology, Madras600036.	22 <sup>nd</sup> December 2015
19	Workshop on Current trends in Linear Algebra	Reva Institute of Technology and Management, Bangalore-560064.	15.12.2014
20	Workshop on Basic Science syllabus	University B. D. T. College of Engineering, Davangere, 577044.	20.8.2014
21	International symposium on Advances in	Department of Mathematics and Research Centre in Applied	24.01.2014

	Applied Mathematics	Mathematics, MES College of Arts, Commerce and Science Bangalore-560003.	
22	Workshop on Quality Enhancement of Engineering Education through NPTEL	JSSATE Bangalore-560060.	7 <sup>th</sup> August 2013
23	Workshop on Applications of Wavelets for Signal and Image processing in Research	JSSATE Bangalore-560060.	8 <sup>th</sup> and 9 <sup>th</sup> April 2013
24	FDP on Recent Advances in Nano Technology	VTU-VGST & JSSATE Bangalore-560060.	26.3.2012-30.3.2012
25	Workshop on Fine tuning of Engineering Mathematics syllabus	VTU, Belagaum,	29-03-2010
26	International symposium on Fluid Days	JNCASR, Bangalore 560064.	31Dec-1Jan 08
27	Winter school on Introduction to Partial Differential Equations	Nonlinear studies group, IISC, Bangalore 560012.	19-23 December 2005
28	Workshop on Mathematical Neuroscience An Introduction	Nonlinear studies group, IISC, Bangalore, 560012.	July 27 <sup>th</sup> 2005
29	Fourth DST-SERC School on Mathematical Modelling of Ground water Quality and Pollution	DST & UGC Centre for Advanced Studies in Fluid Mechanics, Bangalore, 560001.	May2-30,2005
30	Workshop on Modeling on Nano and Smart Materials	UGC – CAS in Fluid Mechanics, Bangalore University, Bangalore,560001.	March 28-29, 2003
31	UGC South Zone Workshop on Mathematical Modeling of Environmental Pollution and Materials Science	UGC-CAS in Fluid Mechanics, Dept. of Mathematics, Bangalore University, Bangalore,560001.	May 17-20, 1999

**v. Workshops / Conference (Organised):**

Sl. No.	Name of the workshop / Conference	Organised by	Date	Role
1	National Mathematics Week in honour of Srinvasa Ramanujan	Department of Mathematics in association with IQAC,JSSATE, Bangalore 560060	20-23 December 2023	Organizer
2	One Day Student Development Program on "Overview of automation and Client-Server interactions using REST services"	Department of Mathematics, JSSATE, Bangalore 560060	13 <sup>th</sup> August 2022,	Convenor
3	Two Days FDP on "Problem Solving using Python Programming	Department of Mathematics, JSSATE, Bangalore 560060	29 <sup>th</sup> & 30 <sup>th</sup> June 2022	Convenor
4	Invited talk on occasion of National Mathematics Day	Department of Mathematics	22.12.2021	Convenor
5	Numerical Methods and its Applications in Research	Centre for Interdisciplinary Research & Department of Mathematics, JSSATE, Bangalore 560060	04.07.2018	Organizer

**vi. Conference Attended (those sponsored by AICTE / ISTE /IETE /TEQIP or any other sponsoring body)**

Sl. No.	Name of the workshop / Conference	Organiser	Date
1	Recent Trends in Engineering and Material Sciences(ICEMS-2016)	Jaipur National university, Jaipur, Rajasthan, 302017.	March 17-19, 2016
2	Conference on Waste Management towards Sustainable development in Indian context	Center for Sustainable Technologies II Sc and Karnataka State Pollution Control Board & Maharani Laxmi Ammani college for Women, Bangalore 560003.	24 <sup>th</sup> and 25 <sup>th</sup> January 2014
3	Frontiers in Fluid mechanics	UGC Centre for Advanced Studies,Bangalore-560001.	Aug31 to Sept 2, 2009
4	International conference on Frontiers in fluid Mechanics	DST,& Bangalore University,Bangalore-560001.	26-28 <sup>th</sup> October 2006
5	Recent Trends in Fluid Mechanics	UGC-DRS, Department of Mathematics, Gulbarga	

		University, Gulbarga, 585106.	
6	The Frontiers of Plasma Physics and Technology	DAE,DST,ICTP,Italy & National research Institute for Applied Mathematics and UGC – CAS in Fluid Mechanics, Bangalore University, ,Bangalore-560001.	December 9 – 14, 2002
7	45 <sup>th</sup> Congress of Indian Society Theoretical and Applied Mechanics,	ISTAM, Shivakashi , Tamilnadu,626123	December 26-29, 2000.
8	44 <sup>th</sup> Congress of Indian Society Theoretical and Applied Mechanics	ISTAM, REC, Warangal,506004.	December 22-25, 1999.

#### 9. Details of NPTEL / COURSERA courses completed

Sl. No.	Name of the subject	Organised by	Date of completion / Award	Grade / Marks
1	Matrix Analysis with Applications	Indian Institute of Technology, Roorkee	22.10.2021	68%
2	Multivariable Calculus	Indian Institute of Technology, Roorkee	15.06.2020	98%
3	Laplace Transforms	Indian Institute of Technology, Madras	28.10.2020	85%

#### 10. Membership of Professional Bodies:

1. Life Membership in Indian Society for Technical Education ( MISTE) : LM 47363
--

#### 11. Any other information you will like to share about your professional experience

Dr C V Vinay  
 Professor  
 JSS Academy of Technical Education  
 Bangalore 560060