

Curriculum Vitae



Name : Dr. Mallinath Yashwant Dhange,
Present Position : Assistant Professor in Mathematics
Sex : Male
Date of Birth : 01/06/1978
Nationality : Indian

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Google scholar link: <https://scholar.google.co.in/citations?user=2AYVIS0AAAAJ&hl=en>

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Address for Coreespondence: Department of Science and Humanities,
BLDEA's VP Dr. PG Halakatti College of Engineering and
Technology, Vijayapur

Permanent Address: Dr. Mallinath. Y. Dhange,
Plot No. 4, Chandramouleswara Nagar, Near Kargil Nagar,
Ladies Hostel Road, Ashram East, Vijayapur, Karnataka, INDIA.

Academic Background: M. Sc., M. Phil., Ph.D., MS-CIT.

Qualification	Name of the Board/university	Month & year of passing	Division	Percentage of marks obtained
S. S. S.	Pune Board	June 1994	First class with Distinction	79.00%
H. S. C.	Pune Board	May 1996	First class with Distinction	73.41%
B.Sc. (Mathematics)	Shivaji University, Kolhapur, Maharashtra, INDIA	May/June, 1999	First class with Distinction	73.40%
M.Sc. (Mathematics)	Shivaji University, Kolhapur Maharashtra, INDIA	May/June, 2002	First class with Distinction	72.42%
M.Phil.	Sri Venkateswara University, Tirupati, Andra Pradesh, INDIA	May/June, 2011	First class	62.25%
Ph.D. (Mathematics)	Viswesharaya Technological University, Belagavi	March, 2019	Awarded	-

Other Professional Soft Skills: *LaTeX, MATHEMATICA, MATLAB, PYTHON* and *MS OFFICE*.

Professional Experience: 13 years

Sl. No	Name of the post	Name of the employer	From	To	Nature of Job
01	Lecturer	BLDEA's VP Dr.P.G.Halakatti College of Engg. & Tech., Vijayapur	21 st April, 2007	30 th November, 2011	Teaching
02	Senior Grade Lecturer	BLDEA's VP Dr.P.G.Halakatti College of Engg. & Tech., Vijayapur	1 st December 2011	31 st January, 2015	Teaching
03	Assistant Professor	BLDEA's VP Dr.P.G.Halakatti College of Engg. & Tech., Vijayapur	1 st February 2015	till today	Teaching

Research Experience: 08 years

I did my Ph.D. under the guidance of Dr. G. C. Sankad, Professor of Mathematics. Title of the thesis is **“Some Flow Problems in Peristalsis on Dispersion: Effects of Wall Properties”** from **Viswesharaya Technological University, Belagavi (Karnataka)**. My research area is Bio-fluid Mechanics (Peristaltic flow problems, Stenosis in Artery, Heat and Mass Transfer).

Area of Interest:

Newtonian and non-Newtonian Fluid Mechanics, Blood Flow problems, Heat and Mass transfer Problems, Stenosis in artery, Nanofluids, and Boundary Layer Theory.

List of Courses Taught:

- Engineering Mathematics – I
- Engineering Mathematics – II
- Engineering Mathematics – III
- Engineering Mathematics – IV
- Additional Mathematics – I
- Additional Mathematics – I
- Calculus and Linear Algebra
- Advanced Calculus and Numerical Methods
- Complex Variables
- Classical Mechanics

Membership of Professional Bodies:

1. Life member of Society of Technical Education (**ISTE**), New Delhi, with membership ID: **L/61211**.
2. Life member of Indian Society of Theoretical and Applied Mechanics (**ISTAM**), IIT Kharagpur, W.B. with membership ID: **L/31805**

Research Supervision/Guidance: Nil**Resource Person:**

1. Resource person for invited talk on **LaTeX code for Mathematical Equations and Editing** at ISTE and IEI approved Six days STTP programme on **“Report Writing Tools”** organized by Department of Mechanical Engineering, BLDEA’s VP Dr. PG Halakatti College of Engineering and Technology, Vijayapur – 586 103, Karnataka., during 24-29, April, 2019.

Visiting Faculty:

1. P. G. Course (Mathematics), Akka Mahadevi Karnataka State Women's University, Vijayapur, Karnataka, INDIA.

Publications in refereed Journal:

1. G. C. Sankad, P. S. Nagathan, Asha Patil and **M. Y. Dhange** "Peristaltic transport of a Herschel-Bulkley fluid in a non-uniform channel with wall effects", **International Journal of Engineering, Science and Innovative Technology (IJESIT)**, 3(3) (2014), pp. 669-678. [www.ijesit.com/Volume 3/Issue 3/IJESIT201403_83.pdf](http://www.ijesit.com/Volume%203/Issue%203/IJESIT201403_83.pdf)
2. Gurunath Sankad and **Mallinath Dhange**, "Peristaltic pumping of an incompressible viscous fluid in a porous medium with wall effects and chemical reactions", International Journal: **Alexandria Engineering Journal**, 55 (2016), pp. 2015-2021. <http://dx.doi.org/10.1016/j.aej.2016.07.011>
3. **Dhange Mallinath** and Sankad Gurunath, "On Magnetohydrodynamic peristaltic pumping of an incompressible viscous fluid with chemical reactions and wall properties", **International Journal of Pure and Applied Mathematics**, 113(7) (2017), pp. 32-41. [http://www.ijpam.eu; IJPAM: Volume 113, No. 7 \(2017\) - Academic Publications](http://www.ijpam.eu; IJPAM: Volume 113, No. 7 (2017) - Academic Publications)
4. G. C. Sankad and **M. Y. Dhange**, "Effect of compliant walls on magneto-hydrodynamic peristaltic pumping of an incompressible viscous fluid with chemical reactions", **APRN Journal of Engineering and Applied Sciences**, 12(3) (2017), pp. 654-660. www.arpnjournals.org/jeas/research_papers/rp_2017/jeas_0217_5669.pdf
5. **M. Y. Dhange** and G. C. Sankad, "Peristaltic pumping and dispersion of a MHD couple stress fluid with chemical reaction and wall effects", **Journal of Advances in Mathematics and Computer Science**, 24(3) (20017), pp. 1-12. DOI : [10.9734/JAMCS/2017/36131](https://doi.org/10.9734/JAMCS/2017/36131)
6. Sankad G. and **Dhange M.**, "Effect of chemical reactions on dispersion of a solute in peristaltic motion of Newtonian fluid with wall properties", **Malaysian Journal of Mathematical Sciences**, 11(3) (2017), pp. 347-363. [MJMS - einspem.upm.edu.my](http://ejournal.upm.edu.my)

7. Sankad, G. C., **Dhange, M. Y.**, “Slip and chemical reaction effects on peristaltic transport of a couple stress fluid through a permeable medium with compliant wall”, **Applications and Applied Mathematics: An International Journal**, 13(1) (2018), pp. 454-471.
8. **Mallinath Dhange** and Gurunath Sankad, “Creeping sinusoidal flow and dispersion of a couple stress fluid with chemical reaction and wall effects”, **ASRO Journal of Applied Mechanics**, 3(1) (2018), pp. 5-20.
9. **Dhange, M. Y.**, Sankad, G. C., “Outcome of wall features on the creeping sinusoidal flow of MHD couple stress fluid in an inclined channel with chemical reaction”, **Springer - Advances in Mathematical Methods and High Performance Computing**, 41 (2019), pp. 371-385. https://link.springer.com/chapter/10.1007/978-3-030-02487-1_23
10. **M. Y. Dhange** and G. C. Sankad, “Simultaneous chemical reactions effect on dispersion of a solute in peristaltic propulsion of a Newtonian fluid in an inclined channel with wall properties”, **International Journal of Applied Mechanics and Engineering**, 24(3) (2019), pp. 527-538. <https://doi.org/10.2478/ijame-2019-0033>
11. **Mallinath Dhange** and Gurunath, “Slip Impact on Diffusion of a Solute in Creeping Sinusoidal Motion of a Newtonian Fluid with Wall Features”, **International Journal of Analysis and Applications**, 17(4) (2019), pp. 659-673. <http://etamaths.com/index.php/ijaa/article/view/1872>
12. **Mallinath Dhange** and Gurunath Sankad, “Diffusion of a solute in creeping sinusoidal movement of a couple stress fluid in an inclined conduit with wall features”, **AIP Proceedings**, 2246(1) (2020), 020022. <https://aip.scitation.org/doi/abs/10.1063/5.0014415>
13. B. Haritha, C. Umadevi, and **M. Y. Dhange**, “Mathematical modeling of convective heat and mass transmission of a rotating nano-fluid bounded by stretching and stationary walls in a vertical conduit”, **International Journal of Applied Mechanics and Engineering**, 25(4) (2020). pp. 69-83.

Manuscript Accepted:

1. T. Sudha, **M. Dhange**, C. Umadevi, J.C. Misra, S. Manna, “Effects of stenosis and dilatation on flow of blood mixed with suspended nanoparticles: a study using homotopy technique” **accepted for publication in International Journal of Applied Mechanics and Engineering.**

Manuscript Communicated:

1. **Mallinath Dhange** and Gurunath Sankad. “Creeping Sinusoidal flow and Dispersion of a Couple Stress Fluid with Complaint Walls and Chemical Effects”, communicated to **Thai Journal of Mathematics, communication dated on 12-04-2017.**
2. **Mallinath Dhange**, Gurunath Sankad, Umesh Bhujakkanavar, “Blood Flow with Multiple Stenosis in a Force Field”, communicated to **Mathematical Modeling for Engineering Problems dated on 14-07-2020.**
3. C. Umadevi, **M. Dhange**, T. Sudha and B. Haritha, “Flow of Blood mixed with Copper Nanoparticles in an Inclined Overlapping Stenosed Artery with Magnetic Field”, communicated to **Case Studies in Thermal Engineering dated on 31-08-2020.**

Conference Presentations:

1. **Dhange, M. Y.**, attended International Conference on Mathematical Sciences, 28-31 December, **2012** held at Department of Mathematics, Science College, Nagpur, Maharashtra (INDIA).
2. **Dhange, M. Y.**, Sankad, G. C., Dispersion of a solute in peristaltic motion: An overview, Presented in *2nd International Conference on Application of Fluid Dynamics (ICFD-2014)*, 21 – 23 July, **2014** held at Department of Mathematics, Sri Venkateswara University, Tirupati, Andra Pradesh (INDIA).
3. **Dhange, M. Y.**, Sankad, G. C., Outcome of wall features on the creeping sinusoidal flow of MHD couple stress fluid in an inclined channel with chemical reaction, presented in *2nd International Conference on Modern Mathematical Methods and High Performance*

Computing in Science and Technology (M3HPCST-2018), 04 – 06 January, **2018** held at Inderprastha Engineering College, Gaziabad, Uttar Pradesh (INDIA).

4. **Mallinath Dhang** and Gurunath Sankad, Diffusion of a solute in creeping sinusoidal movement of a couple stress fluid in an inclined conduit with wall features, presented in *International conference on Mathematical Sciences and Applications* (ICMSA-2019), 09 – 11 August, 2019 held at Gitum University, Hyderabad, Telangana (INDIA).

FDP/STTP/Workshops Attended:

Sl. No.	Nature of training (STTP/FDP/workshop)	Topic	Organized by	Duration
1.	AICTE QIP Workshop	Special Functions for Scientist and Engineers	IIT Indore	02-03-2020-06-03-2020 1 week
2.	AICTE QIP STC	Advanced Matrix Algebra and Applications	IIT Kharagapur	17-09-2019-23-09-2019 1 week
3.	FDP	Pedagogy for Higher Education	IQAC cell and Academic affairs committee, BLDEA's CET, Vijayapur	22-07-2019-26-07-2019 1 week
4.	QIP STC	Biology for Engineers	IIT Bombay, Maharashtra	03/06/2019-07/06/2019 1 week
5.	Workshop	Examination Reform Policy	AICTE at Gopalan College of Engineering and Management, Bangalore	08/05/2019
6.	STTP	Computational methods for integral and differential equations	IIT BHU, Varanasi, Uttar Pradesh	12/10/2018-16/10/2018 1 week
7.	FDP	Applications of MATLAB/SIMULINK in control and power system engineering	BLDEA'S CET, Vijayapur Karnataka	19/11/2017-02/12/2017 2 week
8.	STTP	Modern Biophysical Techniques	IIT Bombay, Maharashtra	15/12/2016-19/12/2016 1 week
9.	Workshop	Mathematica as teaching aid	IIT Roorkee, Uttarkhand	10/03/2016-12/03/2016 3 days
10.	STTP	Outcome based education and assessment methodologies	BLDEA's Polytechnic, Vijayapur, Karnataka	07/12/2015-11/12/2015 1 week
11.	STTP	Advanced computational methods in engineering and sciences	NIT, Warangal, Telangana	01/04/2015-03/04/2015 3 days
12.	FDP	Mathematical and computational applications	KLE Dr. M.S. Sheshgiri	05/01/2015-09/01/2015

13.	Workshop	in engineering	CET Belagavi, Karnataka	1 week
		Research Methodology and Latex	K. S. School of Engineering and Management, Bangalore, Karnataka	20/02/2014-22/02/2014
				3 days
14.	FDP	Wavelets and Applications	BLDEA'S CET, Vijayapur	09/06/2014-13/04/2014
			Karnataka	1 week
153.	Advanced workshop	Partial differential equations: Analysis and applications	Banaras Hindu University, Varanasi, Uttar Pradesh	22/07/2013-31/07/2013
				2-week
16.	Workshop	Computer Algebra Systems (CAS)	Bhaskaracharya Pratishthana, Pune, Maharashtra	27/01/2011-31/01/2011
				1 week
17..	FDP	Linear algebra, wavelets and applications	NIT Calicut, Kerala	29/11/2010-03/11/2010
				1 week
18.	FDP	Decision making in fuzzy environment	NIT Calicut, Kerala	01/06/2009-05/06/2009
				1 week
19.	UGC Sponsored state level seminar	An insight into Euers theorems(after 300yrs)	St. Philomina College, Puttur, DK, Karnataka	12/01/2009 -13/01/2009
				2 days

Signature

Dr. M. Y. Dhange