

Chitra Mekoth

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Email id: chitramekoth@gmail.com

Nationality: Indian

Date of Birth: 23rd January 1995

Gender: Female

Work experience

Undergraduate teaching: Dhempe College of Arts and Science, Miramar, Goa, India since 5th July 2017 till date.

Subjects Taught: Numerical Analysis, Calculus of two variables and Vector Calculus.

Educational Qualifications

Sr. No.	Qualification	University/Board	Subjects	Year of completion	%	Class
1.	M.Sc	Goa University	Mathematics Dissertation: Knot Theory	2017	68.75	First Class
2.	B.Sc	Goa University	Mathematics(6 units)	2015	85.53	Distinction
3.	HSSC	Goa Board	Mathematics, Physics and Chemistry	2012	83	Distinction
4.	SSC	Goa Board	Mathematics, Science, Social studies and languages	2010	85	Distinction

- NET qualified for the exam held in December 2017

Score: 93.5

Rank: 31

- GATE qualified in the year 2018

Score: 425

Percentile: 92.02

Doctor of Philosophy

Joined National Institute of Technology Karnataka for full time PhD in July 2018.

Successfully defended my PhD thesis on 2nd June 2022 at National Institute of Technology Karnataka. The title of the thesis is "Fractional Regularization Methods for Ill-posed Problems in Hilbert Scales".

Work experience

Worked as Assistant Professor in mathematics at Dhempe college of arts and Science, Miramar for the academic year 2017-2018 on contract basis.

Started working as Assistant Professor in mathematics at Parvatibai Chowgule College of Arts and Science(Autonomous), Margao in November 2021 on regular basis.

Activity : Worked in organizing and participated in the "National Conference on Knot Theory" organized by Department of Mathematics, Dhempe College of Arts and Science, Miramar , held on 23rd and 24th of February.

Extra-curricular activities

1. Secured first position in the state level "Bharatanatyam" (Indian classical dance form) Competition organized by the Directorate of Art and Culture, Government of Goa in 2008 and received a scholarship for the same.
2. Obtained C certificate of National Cadet Corps(NCC), India.
3. Was active member of National Service Scheme(NSS), India in college.

Projects Done

1. Bachelors level : A project on the topic " Applications of Calculus" was done under the Guidance of Dr. B. C. Nair.
2. Masters level : A project on the topic " Knot theory" was done under the guidance of Dr. A. J. Jayanthan.

Scholarships received

- 1) By Directorate of Higher Education- Goa, India for good academic performance undergraduate and graduate course.

- 2) By Directorate of Art and Culture, Government of Goa, India for securing first place at the State level Cultural Talent Search Competition.

Publications

1. Mekoth, C., George, S., and Jidesh, P. (2021). Fractional Tikhonov regularization method in Hilbert scales. Appl. Math. Comput., 392:125701, 26.(SCI)(I.F. 4.091). <https://doi.org/10.1016/j.amc.2020.125701>
2. Mekoth, C., George, S., Jidesh, P., and Erappa, M. S. (2022). Finite dimensional realization of fractional Tikhonov regularization method in Hilbert scales. Partial Differential Equations in Applied Mathematics. 5, 100246. <https://doi.org/10.1016/j.padiff.2021.100246>
3. Mekoth, C., George, S., and Jidesh, P., Finite dimensional realization of a parameter choice strategy for Fractional Tikhonov regularization method in Hilbert scales. The Journal of Analysis. <https://doi.org/10.1007/s41478-022-00516-9>
4. Chitra Mekoth; Santhosh George; P. Jidesh and Yeol Je Cho, Projection method for fractional Lavrentiev regularisation method in Hilbert Scales. Hacettepe Journal of Mathematics and Statistics. <https://doi.org/10.15672/hujms.1092739>.