




K. S. SCHOOL OF ENGINEERING & MANAGEMENT

15, Mallasandra, Off. Kanakapura Road, Bengaluru-560109, Karnataka, INDIA.

Faculty Name	Dr. Nisha PG	
Designation	Assistant Professor	
Educational Qualification	Ph.D.	
Experience in Years	Teaching: 06 Research :11	
Areas of Interest	Atmospheric and Ocean Sciences, Climate Change	
E-mail	nishapg@kssem.edu.in	

Educational Details

Examination/ Degree	College / University	Year of Passing
BSc (Physics)	Kerala University, Kerala, India	2002
MSc (Physics)	MG University, Kerala, India	2004
MTech	Cochin University of Science and Technology, Kerala, India	2007
PhD	Mangalore University	2025

Publications

Journal Publications:

1. **Nisha, P.G.**, Pranisha, T.S., Vidya, P.J., Ravichandran, M., Raghu Murtugudde. (2025). Asymmetrical warming in the Indian Ocean during 2010 and 2019. Ocean Dynamics, 75, 41. <https://doi.org/10.1007/s10236-025-01687-2>.
2. **Nisha, P.G.**, Pranisha, T.S., Vidya, P.J., Ravichandran, M., Murtugudde, R. (2024). Trend and Interannual Variability of Heat Content over the Arabian Sea. Journal of Marine Systems, 242, 103935. <https://doi.org/10.1016/j.jmarsys.2023.103935>.
3. Sheba, V.M., Jayaprakash, J., **Nisha, P.G.**, Prasath, B., Debora, S., Begum, T.N. (2024). Influence of seasons and environmental variables on methane dynamics in the Muthukuda Mangrove sediments of Tamil Nadu. Journal of Environmental Biology. 45, 438-445.

4. **Nisha, P.G.**, Pranisha, T.S., Ravichandran, M. (2023). Role of north Indian Ocean on the lightning flash rate of the Indian land region. *Theoretical and Applied Climatology*. 153, 73-86. <https://doi.org/10.1007/s00704-023-04517-x>.
5. **Nisha, P. G.**, Muraleedharan, P.M., Keerthi, M.G., Sathe, P.V., Ravichandran, M. (2012). Does sea level Pressure modulate the dynamic and thermo-dynamic forcing in the tropical Indian Ocean? *International Journal of Remote Sensing*. 33, No. 7, 1991–2002.
6. Muraleedharan, P.M., **Nisha, P.G.**, Sathe, P.V. (2012). Intra-seasonal oscillations at the equatorial Indian Ocean and its association with summer monsoon rainfall using IRS-P4 data. *Journal of the Indian Society of Remote Sensing*. 40, No. 1, 75-83.
7. Muraleedharan, P.M., **Nisha, P.G.**, Mohankumar, K. (2011). Effect of January 15, 2010 Annular Solar Eclipse on Meteorological Parameters over Goa, India. *Journal of Atmospheric and Solar-Terrestrial Physics*. 73, 1988-1998.

Conference Papers:

1. **Nisha, P.G.**, Pranisha, T.S., Ravichandran, M., Increasing trend of Lightning Flash Rates over Indian Land Region: Impact of Global Warming. International Conference on Sustainable Research in Energy and Environment (SREE)-2024 jointly organized by Department of Chemical Engineering & Centre for Energy and Environment, Dr. B R Ambedkar, National Institute of Technology, Jalandhar, Punjab, India during April 5-6, 2024 (Abstract#2024051141).
2. **Nisha, P.G.**, Pranisha, T.S., Ravichandran, M., Effect of increasing heat content of Indian Ocean on the lightning flash rates over Southern India. Climate Resilience and Sustainable Development, Karnataka Science and Technology Academy (KSTA), Department of Science and Technology, Government of Karnataka, Bengaluru, India, during November 22-24, 2023. (Abstract# NCCRSD-AB005)
3. “Does Sea Level Pressure modulate the Dynamics and Thermodynamics of Indian Ocean ”: **Nisha, P.G.**, Muraleedharan, P.M., Keerthi, M.G., Sathe, P.V., was presented at INDORUSCC conference 2009, at Cochin, Kerala, India
4. Air sea interaction and monsoon dynamics; An Argo perspective: Muraleedharan, P.M., **Nisha, P.G.**, Keerthi, M.G., Somayajulu, Y.K., Neelima Chinthapati, Ravichandran, M. (2008) was presented at Pan Ocean Remote Sensing Conference, Guangzhou, China, Nov 27 – Dec 6, 2008.

Awards

1. Best oral presentation awarded in International Conference on Sustainable Research in Energy and Environment (SREE)-2024, Dr. B R Ambedkar, National Institute of Technology, Jalandhar, Punjab, India 2024.
- 2• DST Women Scientist WOS-A (Principal Investigator) scheme was awarded in June 2020.
- 3• Certificate course in Python
- 4• Certificate course in Geoinformatics, 2015, conducted by Centre for Environment and Development, Trivandrum
- 5• Council of Scientific and Industrial Research (CSIR) National Eligibility Test (NET) for lectureship, 2006.
- 6• Graduate Aptitude Test in Engineering (GATE) in Physics, 2005.
- 7• Second Rank in University in M.Sc (Physics) with specialization in Non-Conventional Energy.
- 8• Reviewer for journals: Theoretical and Applied Climatology, Climatic Change, Climate Dynamics and Frontiers in Marine Science.

Other Accomplishment

1. Principal Investigator for the project SR/WOS-A/EA-18/2019 under **Women Scientist scheme**, Department of Science and Technology, Government of India, entitled “Air-Sea Coupling over Indian Ocean and its Climatic Responses” (Grant: Rs. 21L)
2. Presented “Air-sea coupling of Indian Ocean and its climatic responses”, National Subject Expert Committee review meeting on Earth and Atmospheric Sciences at IOM, May 24, 2023 in virtual mode.
3. Participated in International Conference on “Space Science and Technology (ICSST 2021)” organized by Space Education and Research Foundation (SERF), Ahmedabad, Gujarat, India on 5-7th April 2021.
4. Attended “India-Japan Joint Celebration of International Women's Day” organized by KIRAN Division, Department of Science and Technology (DST), Ministry of Science and Technology, Government of India, Embassy of India, Tokyo, Japan, Government of India and Japan Science & Technology Agency, Government of Japan on March 8, 2021
5. Participated in workshop on “How to Choose Right Journal” organized by Research and Development Centre of BMS College of Engineering, Bengaluru on 14th July 2020
6. Presented “Air-sea coupling of Indian Ocean and its climatic responses”, National Subject

Expert Committee meeting on Earth and Atmospheric Sciences at IOM, Anna University, Chennai on November 23, 2019

7. Attended workshop on “Quantum Information Theory” organized by The Indian Academy of Sciences, Bangalore and St. Berchmans’ College, Changanacherry, Kerala at St. Berchmans’ College, Changanacherry during 26th-28th January 2004

8. Attended workshop on “Astronomy and Astrophysics” organized by Inter-University Centre for Astronomy and Astrophysics, Pune and Mar Thoma College, Thiruvalla, Kerala at Mar Thoma College, Thiruvalla during 7th-9th October 2002.

Research Guidance

Professional Membership

Contact Details

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Off. Kanakapura Road, Bengaluru-560109,
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