




K. S. SCHOOL OF ENGINEERING & MANAGEMENT

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

Faculty Name	Nisha PG	
Designation	Assistant Professor	
Educational Qualification	MTech (PhD)	
Experience in Years	Teaching: 05 Research :10	
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	Thesis submitted

Publications

Journal Publications:

- 1. Nisha, P.G.,** Pranasha, 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>.
- 2. 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.
- 3. Nisha, P.G.,** Pranasha, 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>.
- 4. 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.
- 5. 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.
- 6. 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.**, Pranasha, 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.**, Pranasha, 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# NCCRS-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 Chinthalapati, 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 and Frontiers in Marine Science.

Other Accomplishment

1. Project Name: WOSA project SR/WOS-A/EA-18/2019 entitled “Air-Sea Coupling over Indian Ocean and its Climatic Responses”

Funding agency: Department of Science and Technology, Government of India

Role: Principal Investigator (Grant: Rs. 21L)

Research Guidance

1. NIL

Professional Membership

1. NIL

Contact Details

Name: Nisha PG

**Official Address: Department of Physics,
K.S. School of Engineering and Management, # 15, Mallasandra,
Off. Kanakapura Road, Bengaluru-560109,
Karnataka, India.**

Alternate Email: nishapg@gmail.com