



Dr. L. Sheela Nair



Dr. L. Sheela Nair is working as Scientist F in the Coastal Processes Group of NCESS. She graduated in Civil Engineering from the Govt. College of Engineering Trivandrum and holds a Master's degree in Structural Engineering from the PSG College of Technology, Coimbatore. She has acquired her Ph.D degree from IIT Madras. Her field of specialization is Coastal Engineering.

She joined the Marine Sciences Division of CESS in 2006. Since then she has been actively involved in various projects sponsored by the Ministry of Earth Science, Kerala State Government and other agencies in the role of Principal Investigator/Co-Principal Investigator and Investigator. Some of the major projects she was involved are -Shoreline Management Project for the SW coast of India, Oil Spill Modelling for selected locations along the Kerala and Lakshadweep coast, Shoreline Monitoring for the SW coast of India, Studies on Shore Protection Measures for Lakshadweep Islands, Study of Coastal Processes and Hazards along the Kerala coast, Study on depletion of heavy mineral content in the beach washings of IREL, Chavara etc.

Her major contribution includes computation of sediment transport pattern and rates along the Kerala coast adopting the sediment cell approach and developing a method for computing the sustainable mining quantity for beach sand mining based on numerical modeling results and field investigations. She is currently involved in the process of developing a remotely operable video image based coastal/beach monitoring system for continuous monitoring of the coastal processes and beach morphology. The pilot coastal/beach monitoring system for coastal research studies have already been installed at the Valiathura coast in South Kerala, during September 2016.

During her tenure at NIOT she had worked in many of the prestigious research projects like the OTEC, and Desalination and also was involved in numerical modeling works related to mooring and riser analysis as part of the NDB, Deep Sea Mining and ROV Projects.

She is the co-author of the book – 'Geomorphology and Physical Oceanography of the Lakshadweep Coral Islands in the Indian Ocean'. She has about 14 research papers published in peer reviewed International/National Journals and has more than 40 papers presented in International/National Conferences.

Dr. L. Sheela Nair is awarded the Certificate of Merit for her outstanding contributions in the field of Geoscience Technology.