

Dr Archana Sarkar

Dr Archana Sarkar is a scientist with the National Institute of Hydrology (NIH), Roorkee, a premier R&D institute under the Ministry of Water Resources, Govt of India.

She is a civil engineer from MREC-Rajasthan University (now MNIT, Jaipur) in 1989. She completed her masters in Computer Aided Design in Civil engineering from University of Roorkee (now IIT Roorkee) in 1993 and developed an Expert system for Assessment and Repair of Fire-damaged buildings for the masters thesis.

After joining NIH in 1996, she started working in the area of Hydrology and Water resources and completed her PhD on “Runoff and Sediment Modelling in part of the Brahmaputra River basin” from Dept of Water Resources Development and Management, IIT Roorkee.

She has also worked at the Water Resources department of Imperial College, London as a Commonwealth Professional Fellow in 2006. She has a vast research experience of more than nineteen years in the field of Hydrology and Water resources. She has been involved in various national/international research projects with more than sixty research papers to her credit.

Her area of specialization is hydrological modelling; application of Soft Computing techniques like Artificial Neural Networks, Expert Systems and DSS; application of Remote Sensing & GIS in hydrology; and Climate Change studies. Her recent research projects deal with various water resources issues of the Himalayan River basins including Brahmaputra and upper Ganges as well as some isotope studies for the Pushkar Lake in Rajasthan.

She is also actively involved in technology transfer activities as faculty to Institute training courses as well as Institutes like FRI, Dehradun, IPH, Himachal Pradesh, Water Resources Dept, Rajasthan, Irrigation Dept, Haryana, MNIT, Jaipur etc.