

She serves as the Director of the “Institute of New and Renewable Energy” and is a Professor in the Department of Physics at the University of Lucknow, Lucknow. She has international experience as a Visiting Assistant Professor at the University of South Carolina.

Holding a Ph.D. in Nuclear Physics, her scholarly journey bridges **Particle Physics, Nuclear Physics, and Renewable Energy**. She is deeply committed to advancing radiation safety awareness and hazard management, and her contributions place her at the forefront of India’s research in high-energy physics. A core collaborator on the **Indian Neutrino Observatory (INO)** and an active contributor to the **DUNE collaboration at Fermilab (USA)**, she also enriched her perspective through participation in the **CERN visitor program**.

Alongside her work in fundamental physics, she plays a pivotal role in applied research and capacity building in renewable energy. As a recognized training partner of the **Ministry of New and Renewable Energy (MNRE)**, she has equipped many professionals with hands-on expertise in solar rooftop system installation. Her ability to translate scientific innovation into practical solutions has made a significant impact on India’s renewable energy initiatives.

Her academic output includes **over 90 peer-reviewed publications** in reputed journals, reflecting her diverse research engagements. She has also led several **faculty development programs**, demonstrating her dedication to academic growth and knowledge-sharing. A passionate mentor, she continues to inspire and guide young physicists and researchers. Adding to her leadership roles, she is a member of the **state-level committee on Bio-Energy Policy**, contributing to strategic discussions on sustainable energy frameworks.