

# National Institute of Science Education & Research Bhubaneswar

## Annual Report

and

Audited Statement of Accounts



भारत 2023 INDIA



# 2022-2023

## School of Chemical Sciences

### Professor A. Srinivasan

- Interaction at academic assemblies held at NISER.

### Professor Himansu Sekhar Biswal

- We made a software called “**ViLEG**” (Virtual Laboratory Experiments for Graduates). The purpose of this software to demonstrate the rural students the experiments that use sophisticated instruments like fluorimeter, TCSPC, ES-MS and NMR spectrometer. Most of the colleges in Odisha don't have access these instruments. In the weekends and holidays we visited almost 15 remotely located colleges to demonstrate the use of the software.

### Dr. Chandra Sekhar Purohit

- Participated in the outreach programme at NISER

### Dr. Jogendra Nath Behera

- Chief speaker in block level science exhibition, January 2023.

### Dr. Arindam Ghosh

- Steering committee member, Advance course on NMR spectroscopy, HBNI
- Course instructor, Advance course on NMR spectroscopy, HBNI

### Dr. Bishnu Prasad Biswal

- Visited and delivered a talk at Dhenkanal (Auto.) College, Dhenkanal, Odisha.

## School of Computer Sciences

### Dr. Anup Kumar Bhattacharya

- Participated in outreach activities of niser and delivered a talk on zero-knowledge proofs

### Dr. Abhishek Sahu (Visiting Faculty)

- Participated in outreach activities of niser and delivered a talk on zero-knowledge proofs

## School of Earth and Planetary Sciences

### Dr. Jaya Khanna

- In 2022, two forest meteorological stations have been successfully set up to study forest-

atmosphere interactions in the middle Himalayas near Nathuwakhan, Uttarakhand. The observatories are providing data for surface-atmosphere moisture and energy fluxes, regional hydrology and plant level transpiration fluxes. The instrumentation includes a Bowen ratio set up for evapotranspiration measurements, net radiometers, soil moisture and heat flux sensors, sap flux sensors, rain gauges and flumes to study stream flow. Preliminary data is being evaluated.

### Dr. Jayesh Mahendra Goyal

- Delivered NISER Outreach Poupular Lecture to more than 300 school students, November 2022, “Exoplanets and the Search for Habitable Worlds”
- NISER Open Day Popular Lecture, April 2023

### Dr. Priyadarshi Chowdhury

- Delivered popular lecture on continental land formation and its relevance for local people of Jharkhand-Odisha people on invitation from CSR Team, Tata Steel.
- Communicated my work on continental evolution with AGU's EoS magazine and put out a popular blog in their 'Editor's Vox' section under the title: The seven-ages of earth as seen through the continental lens (<https://doi.org/10.1029/2023EO235003>).

## School of Humanities and Social Sciences

### Dr. Amarendra Das

- Participated as a Panelist in TV programmes of Argus TV, OTV and DD Odia on several occasions and published popular articles in newspapers.
- Preparing Odisha Vision 2036 document which has 26 chapters and 45 authors to commemorate the 100 years of Odisha in 2036. The document is being prepared by the Odisha Economics Association.

### Dr. Joe Varghese Yeldho

- Thesis Adjudicator-
  - 1) Mahatma Gandhi University, Kottayam
  - 2) University of Madras, Chennai