

National Institute of Science Education & Research Bhubaneswar

Annual Report

and

Audited Statement of Accounts



भारत 2023 INDIA



2022-2023

Vigyan Pratibha Brief Report 2022-23**About the Vigyan Pratibha Project at NISER:**

Vigyan Pratibha, a pioneering initiative of the central government, is dedicated to crafting a distinctive learning ecosystem. Our primary objective is to integrate various pedagogical tools grounded in constructivism and collaborative learning methodologies. Presently, our dedicated team at the National Institute of Science Education and Research (NISER) in collaboration with Institute of Physics (IOP) are working closely with students and educators from the 8th, 9th, and 10th grades of Kendriya Vidyalaya (KV), Jawahar Navodaya Vidyalaya (JNV), and Atomic Energy Central Schools throughout the states of Odisha and Chhattisgarh. This is achieved by bringing scientists, teachers, and educators together to develop activity modules by Homi Bhabha Centre for Science Education (HBCSE), named 'learning units'. These meticulously designed units seamlessly align with the curriculum of the National Council of Educational Research and Training (NCERT). They are strategically structured to empower students with a profound and critical comprehension of specific scientific concepts.

Vigyan Pratibha is not just an initiative; it's a transformative journey toward enhancing science education that actively engages young minds and equips them with the knowledge and skills necessary for a promising future.

The Vigyan Pratibha team at NISER remains actively engaged in a myriad of events throughout the year. This dedicated team comprises of faculty members and associated project staff,

The following activities have been conducted in the year 2022-23 under the VP project:

Sl. No.	Date of the Event	Title of the Activities	Participating Educational Institutes	Number of participants
1	30.08.2022 - 03.09.2022	First Vigyan Pratibha Teachers' Training Workshop	KVs and JNVs, Odisha, and Chhattisgarh	43 teachers

- Dr. Debasmita P. Alone, Associate Professor, SBS
- Dr. Pankaj V. Alone, Associate Professor, SBS
- Dr. Upakarasamy Lourderaj, Associate Professor, SCS
- Dr. Subhankar Mishra, Reader-F, SCPS



The Vigyan Pratibha project extends its influential reach across the Odisha and Chhattisgarh region, under the able leadership Dr. Debasmita P. Alone at NISER. Her visionary guidance has been instrumental in advancing the project's objectives and impact.



2	26.10.2022 - 27.10.2022	VP School Visit (Components of Wood Ash)	KV 2, Bhubaneswar	24 students (Class 9)
3	29.10.2022	VP School Visit (Osmosis in Raisins)	JNV Konark, Puri	39 students (Class 9)
4	12.12.2022 - 15.12.2022	Second Vigyan Pratibha Teachers' Training Workshop	KVs and JNVs. Odisha, and Chattisgarh	40 teachers
5	2022-23	Learning Units conducted in schools	KVs and JNVs, Odisha, and Chattisgarh	557 students

Vigyan Pratibha Teachers'-Training Workshops

The essence of the Vigyan Pratibha project lies in its vision to conduct biannual teachers' training workshops hosted at the prestigious NISER campus. These workshops, meticulously designed, are geared towards equipping educators from diverse schools, with a particular focus on TGTs from Kendriya Vidyalayas (KVs), Jawahar Navodaya Vidyalayas (JNVs), and Atomic Energy Central Schools (AECs).

Teachers participating in these workshops undergo intensive and systematic training through the learning units. After the initial workshop, teachers return to their respective schools, armed with specific learning units, and conduct these modules within their classrooms, offering students a dynamic learning experience. The uniqueness of Vigyan Pratibha shines through in the second workshop, where participating teachers engage with an entirely new set of learning units. Here, they share their invaluable experiences, reflecting upon the triumphs and challenges they faced while conducting these modules with their students. This cyclic process enriches the teachers with fresh perspectives and infuses their teaching methodologies with novel ideas and approaches. The ripple effect is felt in classrooms across the nation as these enthusiastic teachers return to nurture their students' scientific curiosity and excellence, thus advancing the cause of scientific education and literacy in our society.



**Vigyan Pratibha 1st Teachers'-Training Workshop
2022-23**



**Vigyan Pratibha 2nd Teachers'-Training Workshop
2022-23**