

National Institute of Science Education & Research Bhubaneswar

Annual Report

and

Audited Statement of Accounts



भारत 2023 INDIA



2022-2023

Miscellaneous Activities

Independence Day Celebration

NISER celebrated the occasion of the 76th Independence Day by unfurling our national flag in the campus. The celebration continued with a cultural program by our students followed by the inauguration of the Biogas plant (NISARGRUNA) by our Director. The program ended with a mass plantation drive by the NISER community as part of the “Azadi ka Amrit Mahotsav”.

Observance of Sadbhavana Diwas, 2022

To commemorate the birth anniversary of former Prime Minister, Late Shri Rajiv Gandhi, the NISER community took the Sabhavana Diwas pledge on August 19, 2022. Our Director administered the pledge on this auspicious occasion.

Foundation Day

In keeping with NISER’s tradition of celebrating its Foundation Day by inviting eminent scientists to deliver pertinent talks, a lecture was arranged in the Pathani Samanta Auditorium on September 6, 2022. The speaker, Prof. Ashoke Sen from the International Center for Theoretical Sciences, Bengaluru, graced the occasion by giving a talk on “The Future of Our Universe”.



Rajbhasa Hindi Diwas Celebration in the Institute/

संस्थान में राजभाषा हिन्दी दिवस समारोह

In order to promote the importance of Hindi, several programs and competitions were organized at the institute under the Official Language Hindi Fortnight from 14th September to 29th September, 2022. The institute's students, staff, and faculty members

participated enthusiastically in all the programs and competitions.

The National Flag Mast

To give a position of honour to our National flag, which represents hopes and an inspirations of the people of our country, an hundred feet National Flag Mast was installed at NISER on October 20, 2022.

Observance of Rashtriya Ekta Diwas

To commemorate the birth anniversary of Shri Sardar Vallabhbhai Patel, popularly known as the 'Iron Man of India', the NISER community passionately celebrated the National Unity Day by taking Rashtriya Ekta Diwas Pledge.

Vigilance Awareness Week

Observed over the course of a week from October 31st to November 6th, 2022, the vigilance awareness week came to an end with a pledge-taking ceremony on 2nd November. Our Director administered the pledge on this occasion.

Observance of Constitution Day

The NISER Community took the Constitution Day pledge on November 25, 2022 to commemorate the adoption of the Constitution of India and reaffirm our commitment to upholding its ideology. Our Registrar administered the pledge on this occasion.

Observance of Republic Day

On the occasion of India's 73rd Republic Day on January 26, 2023, commemorating the adoption of the Indian Constitution, NISER joined in the nationwide festivities by hosting an event to hoist our National Flag, presided over by Honorable Director, Prof. Sudhakar Panda, followed by an inspiring speech, addressed to the faculty and staff members. The Director took this opportunity to express his appreciation for all administrative and technical staff who play an invaluable role in ensuring seamless functioning of various activities within NISER and acknowledged their efforts with a well-deserved award.

Observance of Swachha Pakhwada

The 14-day-long Swachhata Pakhwada was inaugurated on March 18, 2023 by the Director, of NISER Professor Sudhakar Panda followed by a speech by Chairperson, Swachha Bharat Abhiyan Committee, NISER Dr. Amarendra Das. Both speakers highlighted the importance of cleanliness and hygiene and need to keep our campus clean. After the inauguration a swachhata march was done in campus, where students, housekeeping staff, and swachhata committee members spread awareness on waste segregation with placards and slogans in the residential and hostel complexes.

A slogan contest was held on Day 2 to motivate the campus people to support the campaign on cleanliness. On day-3, an essay contest was held on the topic "Role of Cleanliness in Nation building." Day 4 was observed with a competition on the theme "Best out of Waste" for female residents of campus. A number of Innovative products were displayed by the resident women of NISER made from waste materials.

On day 5 cleanest hostel and office spaces were selected by a jury. A separate best out of waste competition was organised for the students and staff of NISER. On Day-6, The documentary "Rethinking the World's Waste: Circular Economy" was shown by the film club. The documentary raises serious concern over the alarming pace of the growth of plastic garbage and some of the tactics used to combat it. On day-7, we conducted a quiz on General awareness about cleanliness in India and various schemes launched by the government.

On day-8, a graffiti competition was held on the theme waste problems on the planet earth.

On day-9, the cleanliness drive was organized where, student volunteers collected the trash in teams and separated it into distinct piles for wet and dry biodegradable and non-biodegradable waste. On day 10, a drawing and painting competition was organized for students. A separate drawing and painting competition was organized for staff on day -11 on the theme "Innovations for a greener and cleaner future".

On day -12, guest speakers were invited to deliver talk on waste management. Mr. Dillip Kumar Mohanty, the executive of the Jatni Municipality, and a sanitation specialist spoke on the measures taken by Jatni Municipality for waste segregation, collection and management. A debate competition was held on Day-13 on the theme "Garbage tourism: Can it showcase India's waste management challenges and promote eco-tourism?".

On Day 12 and Day 13, students of H 205 exhibited academic posters on different themes related to waste segregation, collection and management. A closing ceremony to mark the end of Swachhata Pakhwada was organized on day-14. Winners of various competitions were given prizes by the Director, NISER. A documentary based on all events of Swachhata Pakhwada was shown to the audience.

Cancer Hospital and Research Centre in the NISER Campus

NISER have recently obtained approval of the competent authorities for the establishment of cancer hospital and research centre in the NISER campus. This is an INR 650 Cr. project of which 250 Cr. is the contribution from Tata Trusts and 400 Cr. is the commitment from the Department of Atomic Energy. Tata Trusts will build the hospital and handover to us for operations. The DAE funds will be utilized for residential quarters, dharmashala, hostels, equipment and manpower. This project is likely to be commissioned in three years from the date of starting. This centre will be able to offer affordable health care to millions of people in need and also add a new chapter to cancer research at NISER.

Official Language Hindi in NISER

NISER being a central autonomous institution under DAE is making all efforts to promote & implement the Official Language Policy of the Union. An Official Language Implementation Committee (OLIC) consisting of all the Deans, Chairpersons, FICs, Registrar & other Section Heads under the Chairmanship of Director plays an important role to ensure the effective compliance and implementation of the policy in the Institute. The

mandatory requirements like signage, stamps, letterheads, advertisements, tenders, and reports are already being done in bilingual. Staff members those who have been trained through various official language Hindi courses and many others are doing their official work in Hindi up to their best possible extent. To encourage and motivate more employees of the institute to execute their official work in Hindi, the DAE's Incentive Scheme (ATOLIS – Atomic Energy Official Language Implementation Scheme) has been implemented and the staff members are being awarded the prizes under the scheme. The institute time to time also conducts Hindi Seminars / Webinars, Conferences, Workshops and Training Sessions. Competitive events in official language Hindi like essay writing, film quiz, noting & drafting, open speech competitions etc. are the essential part of Hindi Pakhwada / Hindi Diwas celebrations in the Institute every year. Some of such major events and activities conducted during the year 2022-23 are being reported here:

- **Participation in the Hindi Diwas Celebration & Second All India Official Language Conference:** As per suggestion from the Official Language Department, Government of India three officials from the Institute have participated in the Hindi Diwas Celebration on 14th September 2022 and Second All India Official Language Conference on 15th September 2022 conducted by Official Language Department, Ministry of Home Affairs, Govt. of India at Surat, Gujrat.
- **Hindi Pakhwada (Fortnight) Celebration at NISER:** The official language Hindi Pakhwada (fortnight) was celebrated in the institute from September 16th to 30th, 2022. During the pakhwada (fortnight) various competitions for students & employees were conducted in the institute which are given below:

दिनांक / कार्यक्रम प्रतियोगिता /	सहभागिता समूह
19.09.2022 टिप्पण आलेखन प्रतियोगिता	इस प्रतियोगिता में संस्थान के कर्मचारियों ने भाग लिया
21.09.2022 नाइसर कर्मचारियों द्वारा हिन्दी में निबंध लेखन प्रतियोगिता	इस प्रतियोगिता में संस्थान के कर्मचारियों तथा अधिकारियों ने भाग लिया
23.09.2022 हिन्दी चलचित्र पर आधारित प्रश्नोत्तरी प्रतियोगिता	प्रतियोगिता में संस्थान के छात्र - छात्राओं, कर्मचारियों तथा अधिकारियों ने भाग लिया
24.09.2020 नाइसर छात्रों द्वारा हिन्दी में निबंध लेखन प्रतियोगिता	इस प्रतियोगिता में संस्थान के छात्र-छात्राओं ने सहभागिता की
28.09.2020 राजभाषा हिन्दी कार्यशाला	कार्यशाला में संस्थान के कर्मचारियों तथा अधिकारियों ने सहभागिता की
30.09.2022 हिन्दी में संक्षिप्त मौखिक भाषण / ब्याख्यान	इस प्रतियोगिता में संस्थान के कर्मचारियों, अधिकारियों तथा छात्र - छात्राओं ने भाग लिया

- **Official Language Hindi Workshop:** On September 28, 2022, an insightful in-house Hindi workshop took place. Attended by 25 institute officials, the workshop was a comprehensive platform for enhancing Hindi language skills. This initiative marked a significant step towards bolstering inter-office communication and promoting linguistic diversity.

Training Programme: A Faculty Development Programme for Junior / Senior Translation Officers of DAE was conducted in NISER during March 7th to 12th, 2022 by Administrative Training Institute (ATI), DAE.

The XXXVII DAE Sports & Cultural Meet 2022-23 Bridge event

The event was organized by the NISER Gymkhana Club from March 6th to 10th, 2023, at the NISER Community Centre. Seven teams participated:

AJANTA, DWARKA, ELLORA, GOLCONDA, PUSHKAR, RAMESHWARAM, and KONARK (host team). Three ladies' pairs, one each from AJANTA, ELLORA, and DWARKA, also took part.

The tournament kicked off with a Managers Meeting, where representatives from all teams discussed various aspects. The Bridge event included multiple categories:

Team Duplicate Matches Event: Six teams competed in a league format, each playing 10 boards in 5 rounds (totaling 50 boards per team). The top 4 teams proceeded to the semifinals, and the winners played in the finals.

IMP Pair Event and DAE Team Selection: An IMP pair event was conducted in two rounds. The top 6 pairs from this event were proposed for the DAE team, with the top 3 pairs selected for the team and the rest as reserves.

MP Pair Event: Each team sent two pairs for this event, which was played in a single round of 26 boards.

Outstanding Performance Award



Shri Souvagya Mahapatra
Scientific Officer –E

Our Administrative and Technical staff play an invaluable role in ensuring the smooth functioning of all Institute activities. This year on Republic Day, the Institute acknowledged the contributions made by them and felicitated several members of the NISER family for their devotion to duty for the year 2022



Shri Dinesh Bahadur Singh
Administrative Officer-I



Shri Bidyut SS Mohanty
Scientific Assistant-C



Dr. Mriganka Sadhukhan
Technician-D



Ms. Bishnupriya Das
Upper Division Clerk

Ladies Pair: Three pairs participated, and their scores were considered within the Open IMP pair event.

The Opening Ceremony, held on March 6th, featured cultural programs and speeches. Dr. Sudhakar Panda, Director of NISER, inaugurated the event, and Mr. Suvendu Patnaik, President of Odisha Bridge Association, was the chief guest. The Closing Ceremony on March 10th included a report on the event, cultural performances, and prize distribution. Mr. Suvendu Patnaik awarded prizes to winners and runners-up in various categories and officially closed the event.

In summary, the XXXVII DAE Sports & Cultural Meet 2022-23 Bridge event was a competitive and culturally enriched gathering of teams where various Bridge categories were contested and concluded with a successful closing ceremony.

Outreach Activities

NISER Outreach Brief Report 2022-23

The Outreach Program at NISER aims to communicate the importance and ideologies of science with the community. These programs are instrumental in promoting scientific literacy, inspiring future scientists, and bridging the gap between the scientific community and the public. These programs serve as a vital bridge, ensuring that the benefits of scientific knowledge are accessible to all, ultimately contributing to a more informed, innovative, and interconnected society.

Faculty members representing various schools at NISER have played an instrumental role in the NISER Outreach program. These dedicated individuals include:

- Dr. Debasmita P. Alone, Associate Professor, SBS
- Dr. U. Lourderaj, Associate Professor, SCS
- Dr. Pankaj V. Alone, Associate Professor, SBS
- Dr. Subhankar Mishra, Reader-F, SCPS
- Dr. Anupam Pal Choudhury, Assistant Professor, SMS
- Dr. Jayesh Goyal, Assistant Professor, SEPS; and
- Dr. Satyaprasad P. Senanayak, Assistant Professor, SPS

As a part of NISER's Outreach program, we conduct various science outreach activities throughout the year which are mentioned below:

Science Outreach Activities	No. of Events
Educational Visits to NISER	20
Outreach Talk Series	4
Popular Talks	5
Student Internship	1
Other events	5
Total Number of Outreach Events in the year 2022-23	35

Educational Visits 2022-23

Total Educational Visits for the year 2022-23: 20

About the Event: Educational Visits to a research laboratory are considered to be fundamentally enriching educational experiences. There are year-round visits of students and faculty from various institutions nationwide who get first-hand experience of a state-of-the-art Scientific Institution. The students are inspired through interactions with the NISER faculty, Scientific Officers, and its students. During their visits on any Friday (with a prior appointment), the school/college students are exposed to a few experiments and get to observe people's work-life balance at NISER. This helps in a better understanding of what is expected of oneself if the students undertake science as a career and enhance the scientific, social, and emotional development of all the participants. The students are left with a sense of imagination and a newfound interest in science.



Upon their arrival at the NISER campus, students undergo an initial orientation session by Dr. Debasmita P. Alone. During this session, they are familiarized with NISER's offerings, including its diverse range of courses, state-of-the-art facilities, and exciting array of extracurricular activities. Subsequently, they are guided to specific