

Monitoring Plan for Innovation Hub

Mandatory inputs for the month of: March 2024

1. Name of the Unit/**Sc. Centre**: Arunachal Pradesh Science Centre
2. Date of inauguration of innovation hub: 8December 2018
3. Area of the innovation hub: 2500 sq
4. List of activities undertaken:
 - a. **1st March 2024: Weeklong celebration on the eve of National Science Day: Hands activity on Artificial Intelligence**

During the week-long celebration of National Science Day in the Itanagar capital region, hands-on activities on artificial intelligence were organized for selected students. Among the highlights was the introduction of LEGO EV3, a versatile robotics kit renowned for its ability to teach programming and engineering concepts through engaging projects. The students were immersed in constructing and programming their own robots, fostering a deeper understanding of AI principles in a practical, interactive manner. Total participant: 10



b. 2nd March 2024: Weeklong celebration on the eve of National Science Day: Science behind Magic

During the captivating exploration of the "Science Behind Magic" as part of the week-long celebration of National Science Day in the Itanagar capital region, students were enthralled by the intricate fusion of science and illusion. Through hands-on demonstrations and interactive workshops, participants delved into the physics, psychology, and mathematics underpinning seemingly magical feats. Detailed explanations elucidated optical illusions, sleight of hand techniques, and the psychology of perception, unraveling the secrets behind levitation, disappearing acts, and mind-reading tricks. Engaging experiments showcased the principles of refraction, misdirection, and cognitive biases, empowering students to decipher the scientific mechanisms behind the mesmerizing world of magic. Total participant: 25



c. 3rd March 2024: Valedictory National Science Day:

The valedictory program for the week-long National Science Day celebration in the Itanagar capital region was further enriched by a webinar on "Mission Life," featuring Dr. Shardul Wagh, Head of the Department of Biochemistry at Kamla Nagar Mahavidyalaya, Nagpur, as the resource person. Attendees had the opportunity to delve into the intricacies of life sciences, exploring cutting-edge research and advancements in the field. Winners of the quiz competition showcased their knowledge and quick thinking, while those from the project-making competition demonstrated creativity and problem-solving skills. Additionally, participants in the waste-to-wealth competition were recognized for their innovative approaches towards sustainability and environmental stewardship. The science exhibition competition further enriched the event, providing a platform for participants to showcase their scientific discoveries, inventions, and experiments, captivating the audience with their ingenuity and passion for science. Distinguished guests and esteemed educators commended the efforts of the winners, highlighting the importance of fostering a culture of scientific inquiry, innovation, and responsible citizenship. Total participant: 150



d. 19 to 21 March 2024: Participation in Northeast Science Fair:

The Northeast Science Fair, organized by the Regional Science Centre in Guwahati, brought together participants from across the region to showcase their scientific projects and innovations. Winners of the science exhibition, along with other selected participants, enthusiastically took part in this event. The fair served as a platform for these individuals to present their findings, exchange ideas, and engage with fellow enthusiasts in the scientific community. It provided a valuable opportunity for attendees to explore diverse scientific disciplines and foster collaboration. Total participant: 11



e. 22,26,28 March 2024: Educational tour by Kendra Vidyalaya No.1

An educational tour organized by Kendra Vidyalaya No.1, Naharlagun, aimed to enrich students' scientific knowledge. Aligned with the objective of bridging classroom learning with real-world applications and fostering a deeper understanding of Science and Mathematics in an enjoyable and meaningful manner, the Ministry of Human Resource Development has established the Rashtriya Avishkar Abhiyan (RAA). This initiative serves as a convergent framework, nurturing curiosity, creativity, and a passion for Science, Mathematics, and technology among students. It also aims to identify and support individuals with a penchant for these disciplines, nurturing them towards academic excellence and research endeavors. During the tour, spanning three days, students from classes 6 to 9 were exposed to various aspects of innovation, the science behind illusions, and space education. Total participant: 186



5. No. of creative projects undertaken along with the list:
6. No. of best nominated projects along with the list:
7. No. of students participated: 382
8. Name of the school groups participated:
 - a. VIVEKANANDA KENDRA VIDYALAYA, ITNAGAR
 - b. VIVEKANANDA KENDRA VIDYALAYA, VIVEK VIHAR
 - c. KENDRA VIDYALAYA NO.1
 - d. KENDRA VIDYALAYA NO.2
 - e. HOLLY CROSS SCHOOL
9. Whether formation of a local advisory committee comprising of members from different segments of the society is completed?
(If yes, please enclose the list of members of the committee)
10. Whether network with communities has been set up?
(If yes, please give the details)
11. Whether the information about your innovation hub has been included in the website of your Centre/institution?

<http://ardst.arunachal.gov.in/innovation-hub/>
12. List out the challenging ideas received from idea box:
13. No. of family innovation contests organized with dates:
14. No. of parent child joint innovation projects organized along with the list:
15. No. of community innovation fairs organized (dates, duration, and list of activities):
16. No. of innovative design contests organized:
17. No. of short orientation camps for Civil servants and public administrators organized (dates & duration and list of activities):
18. No. of educational and research institutions, Science Clubs, NGOs, Corporate Bodies associated with the innovation hub:

19. A brief description on action taken for publicity and sponsorships for innovation hubs:
20. No. of innovative products developed for copyright/patent along with the list:
21. No. of Individual Members in the Innovation Hub: 78
22. No. of Institutional Members in the Innovation Hub: 03
23. No. of students/teachers/parents/invited public who were exposed to the Innovation Hub during the month: 3,628