

# Monitoring Plan for Innovation Hub

Mandatory inputs for the month of: June 2023

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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) 5<sup>th</sup> June World Environment Day:

World Environment Day was commemorated through a series of impactful activities aimed at promoting environmental consciousness and fostering sustainable practices. A notable plantation event took place, symbolizing the commitment to preserving our natural surroundings. Individuals took pledges to actively contribute to the protection of the environment, while comprehensive awareness programs were conducted to educate and engage the community. Furthermore, an inter-school quiz competition was organized, featuring participants from various schools in the capital complex. After a keenly contested battle of knowledge, Vivekananda Kendra Vidyalaya-Itanagar emerged victorious, showcasing their exceptional aptitude, and understanding of environmental issues. The event served as a significant platform for fostering a sense of responsibility towards the environment and encouraging proactive efforts for a greener and healthier planet. Total 63 Participants



### **b) 6<sup>th</sup> June Industrial Training:**

As part of the diploma program in Computer Science Engineering at Rajiv Gandhi Government Polytechnic, the 4th semester students were required to undergo a four-week industrial training program to enhance their practical skills and industry exposure. This training program was organized by the Innovation Hub, which provided a comprehensive learning experience for the students. The training encompassed various domains, including hardware and programming with Lego EV3, computer hardware, system software, CNC lathe machine operations, 3D printing techniques, and Arduino hardware and programming.

To facilitate practical learning, the students actively engaged in hands-on activities related to each domain. They gained valuable experience in working with Lego EV3 robotics, allowing them to explore the hardware components and programming concepts associated with it. Additionally, they received practical insights into computer hardware and system software, gaining a deeper understanding of their functionalities and interdependencies.

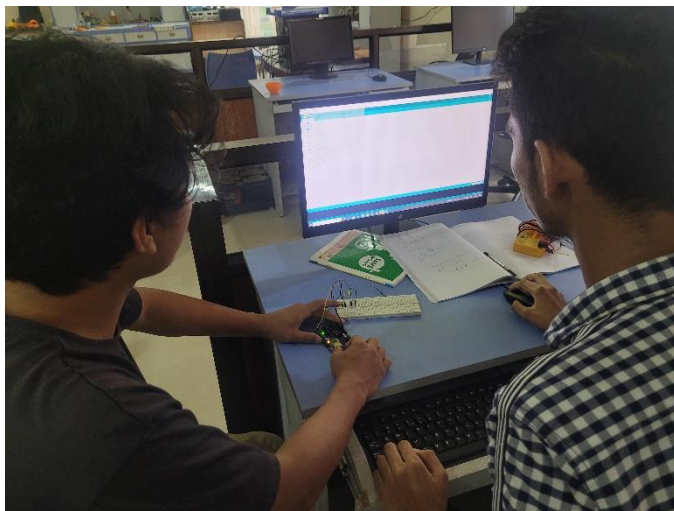
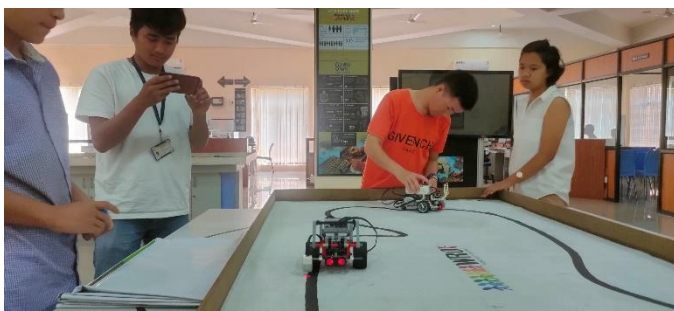
The training also involved the operation of CNC lathe machines, where the students were acquainted with the processes involved in precision machining. Furthermore, they were introduced to the cutting-edge technology of 3D printing, learning the intricacies of designing and fabricating objects using additive manufacturing techniques.

As part of the training, the students were given the opportunity to participate in a Lego EV3 robotic competition, where they showcased their skills and creativity in designing and programming autonomous robots. Moreover, they were assigned a home automation project, enabling them to apply their knowledge and skills to develop a system that integrated various household functions for enhanced convenience and efficiency.

Towards the end of the training program, an examination was conducted to assess the students' understanding and proficiency in the covered topics. This evaluation aimed to gauge their theoretical knowledge as well as their ability to apply concepts practically.

Overall, the industrial training program provided the 4th semester students of Rajiv Gandhi Government Polytechnic with valuable exposure to real-world applications of computer science engineering. By engaging in hands-on activities, participating in competitions, and completing projects, the students acquired practical skills and knowledge that will contribute to their professional development and future careers. Total 13 participants







**c) 21<sup>st</sup> June World Yoga Day:**

Under the guidance of Arunachal Pradesh Science Centre's esteemed curator, Mr. Vivek Kumar, assumed the role of an instructor and introduced the participants to the profound practice of yoga. During the sessions, he highlighted the numerous benefits associated with incorporating yoga into one's lifestyle. Yoga, an ancient discipline originating from India, encompasses physical postures (asanas), breath control (pranayama), meditation, and philosophical principles. Total 35 participants



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: 111
8. Name of the school groups participated:
  - a. VIVEKANANDA KENDRIYA VIDYALAYA, ITANAGAR
  - b. JNK PUBLIC SCHOOL
  - c. GHSS ARUNODAYA, ITANAGAR
  - d. HOLY CROSS SCHOOL ITANAGAR
  - e. KINGCUP PUBLIC SCHOOL
  - f. GREEN MOUNT SCHOOL
  - g. RAJIV GANDHI GOVT POLYTECHNIC
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: 1,106