

Monitoring Plan for Innovation Hub

Mandatory inputs for the month of: September 2022

1. Name of the Unit/Sc. Centre: Arunachal Pradesh Science Centre
2. Date of inauguration of innovation hub: 8 December 2018
3. Area of the innovation hub: 2500 sq
4. List of activities undertaken:

a. Ideation, Electronic & Robotics Awareness Programme:

A month-long workshop on ideation, electronics & robotics was conducted by Innovation Hub, Arunachal Pradesh Science Centre at different schools of Itanagar capital region. The main objective of the programme was to inculcate the young minds about innovation and basic electronics as per their syllabus to encourage them for a positive future in the field of science & technology. To ignite the mind of young students' brain storming session was conducted in their school and ideas were collected from them. Basic knowledge about electronic was imparted through hands on learning. At last robotics awareness was conducted and they were introduced about its programming, working, and function of sensors and motors.





3rd September: Govt Upper Primary School, D-Sector Naharlagun



7th September: Govt Middle School, Nyorch



8th September: Govt Secondary School, G-Sector Naharlagun



9th September: Govt Middle School, Yari Babar



13th September: Govt Higher Secondary School, Polo Colony Naharlagun



15th September: Govt Girl Residential School, Nirjuli

b. Lego Ev3 Robotics Training Programme

Lego Ev3 robotic Competition has been scheduled on November 2022. Three higher secondary school from Itanagar capital region has been selected and are given training on every Sunday and elimination are also being conducted at Innovation hub Itanagar. The best group from each school will be representing their school in the competition.

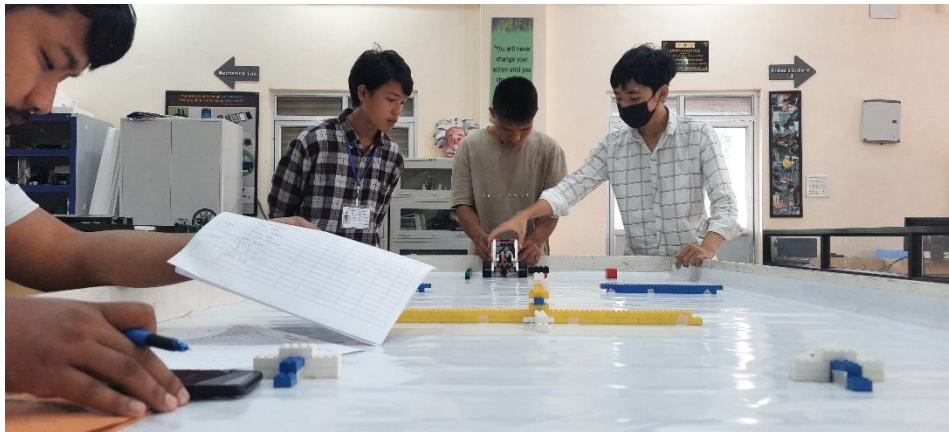


4th September: Govt Higher Secondary School, Arunodaya & Ganga





11th September: Govt Higher Secondary School of ESS- Sector Itanagar, Arunodaya & Ganga





25th September: Govt Higher Secondary School of ESS- Sector Itanagar, Arunodaya & Ganga

c. JP Public School Visit:

On 20th September 36 students from JP Public school visited Innovation hub. Introduction to ideation and hands on activity of robotics was also conducted. Chemistry practical based on their syllabus was also performed by their teacher.



d. 03 Days Capacity Building Training Programme on Plant-Taxonomy, Systematics and Phyto-Diversity

Needs-driven capacity building is required as a matter of urgency to overcome the present lack of taxonomists and systematists who are skilled in natural history and collections. This must necessarily include the training of the next generation of taxonomists, appropriate leadership for natural history collections and the involvement of practicing taxonomists to change the perception of taxonomy by decision-makers.

Arunachal Pradesh is one of the 12 hotspots of world bio-diversity and most of the part is unexplored and less documented. It is considered as a botanist paradise. There is a dire need for taxonomists and systematists who can interpret the results of their scientific endeavors in a natural history framework. Systematists with a firm understanding of interpretive taxonomy therefore who can generate biodiversity data and information and package them into various knowledge parcels to respond to the needs of end-users and enable a sustainable relationship with living world. Without proper identification of natural resources, we cannot develop a sustainable development model of our state. With this aim a “03 days capacity building training programme on Plant-taxonomy, Systematics and Phyto-diversity” was organized for UG/PG students by Arunachal Pradesh State Council for Science & Technology, Itanagar in association with Botanical Survey of India, Arunachal Pradesh Regional Centre, Itanagar from 21st September to 23rd September 2022 at A.P. Science Centre, Itanagar. The programme was organized in both offline and online mode.

Eminent speaker from different parts of India delivered their insightful talks on various aspects of plant/molecular-taxonomy, Phyto-diversity, mushroom, and orchids with special reference to Arunachal Pradesh and share their experience during the programme with student. Hands-on training programme was given by Scientists from BSI and Education staffs of Innovation Hub, A.P. Science Centre.

Total 80 students from Dera-Natung Govt. College, Himalayan University and VKV B Ed College, Nirjuli participated offline. More than 100 participants participated online. And students from LSM Govt. Post Graduate College, Pithoragarh, Uttarakhand (26) and Students from SUK, Kolhapur (23) also participated in the programme.

The objectives are:

- To motivate young students and college students towards Basic Science and Research through hands on approach.
- To enhance the expertise of people in the field of plant taxonomy and inculcate the knowledge of both classical as well as modern tools of taxonomy.

- To impart training in basic techniques of plant identification, herbarium making, nomenclature, classification, botanical illustrations, floristics, and revisionary studies, etc. as well as the modern techniques of molecular taxonomy.

- To create a next generation of plant taxonomist.

Beneficiaries: Students and Teachers.



Student from LSM Govt. Post Graduate College, Pithoragarh, Uttarakhand



Student from SUK, Kolhapur, Maharashtra



Three-day capacity building program on 'Plant Taxonomy...' begins



ITANAGAR, Sep 21: A three-day capacity building training programme on "Plant Taxonomy, Systematics and Phyto-diversity" was launched at the Arunachal Pradesh Science Centre (APSC) here today in hybrid mode (both offline and online), in the august presence of Dr A A Mao, Director, BSL, Govt of India, Kolkata and CD Mungay, Director cum Member Secretary, AP State Council for Science and Technology, GoA and Dr R K Mishra, HOD Botany, Dera Nang Govt College, Itanagar.

Page

The programme is being jointly organised by APSC&T, Department of Science & Technology, GoA and Botanical Survey of India, Arunachal Pradesh Regional Centre, Itanagar.

He also talked about various avenues to convert the rich biodiversity into an economy. Dr Mao, in his address, highlighted the rich plant diversity of the State and the rich traditional knowledge system of indigenous people developed over centuries of ethnic use of native plants, as the preparation of a traditional herbal drugs database which will eventually be helpful in prevention and cure of several ailments. He also expressed his deep concern over the lack of enough skills and organized studies, of these valuable data or facts which are still within the hedge of indigenous people. He urged the participating students to reap maximum benefit from the Skill Vigyan Programme launched by Centre of Excellence for Bio-resources and Sustainable Development, Kinnir.

The first day of the workshop included insightful talks on various aspects of plant taxonomy and Phyto-diversity by Dr S S Dash, Dr A Beninman, Dr Prashant Gupta and Dr S K Singh from different Regional Centres of BSL.

The programme was witnessed by Dr V K Rawat, Baramang APO, Dr Vivek Kumar, and Dr M R Debta and officials from BSL, Itanagar, State Council for Science & Technology, Itanagar and GB Pant National Institute of Himalayan Environment, North East Regional Centre, Itanagar.

More than hundred participants have joined the workshop online from different parts of the country, in addition to 80 offline participants from Himalayan University & DNGC, Itanagar.

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in cooperation with the respective review with special emphasis on health and nutrition sector and lauded Team Namsai for their re-

ing, that without good Angawasi centres, there would be no good product in schools and universities

services for training and support and assistance to take up proposals of the State government through her ministry, the statement

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Capacity building training on Plant Taxonomy, Systematics and Phyto-diversity underway

Establishing traditional herbal drugs database stressed

ITANAGAR, Sep 21: CD Mungay, Director-cum-Member Secretary, AP State Council for Science and Technology, Department of Science and Technology, Government of Arunachal Pradesh and Botanical Survey of India, Arunachal Pradesh Regional Centre, Itanagar.

He urged the participating students to reap maximum benefit from the Skill Vigyan Programme launched by the Centre of Excellence for Bio-resources and Sustainable Development, Kinnir.

The training started in the presence of Dr A A Mao, Director, BSL, government of India, Kolkata, and Dr R K Mishra, HOD Botany, Dera Nang Govt College, Itanagar.

The programme is jointly

organised by A P State Council for Science & Technology, Department of Science and Technology, Government of Arunachal Pradesh and Botanical Survey of India, Arunachal Pradesh Regional Centre, Itanagar.

Director Dr A A Mao in his inaugural remark highlighted the importance and relevance of Plant Taxonomy especially in a time of increasing bio-resource

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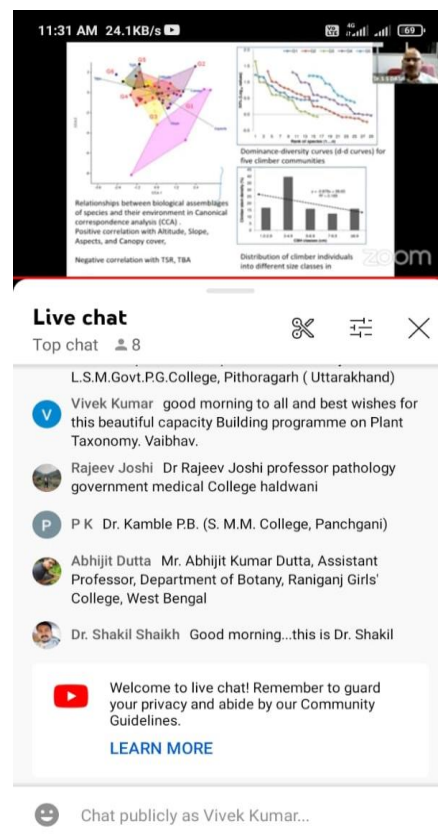
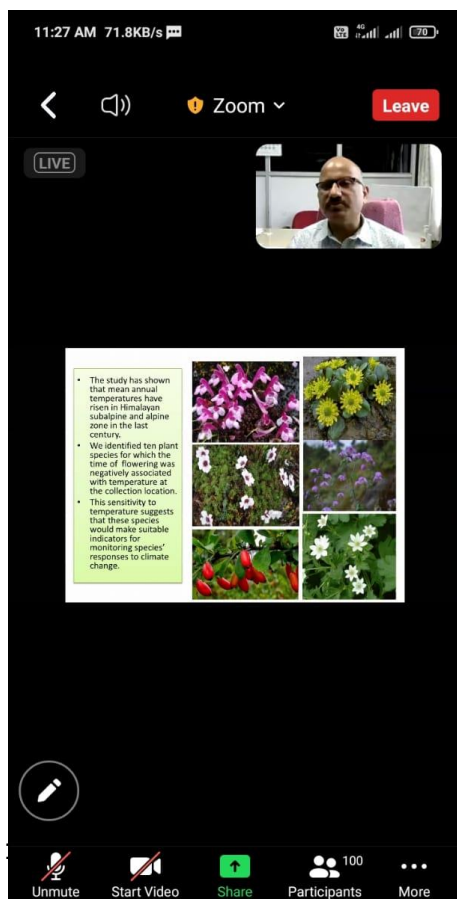
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5. No. of creative projects undertaken along with the list:

6. No. of best nominated projects along with the list:

a. A modified “ARRA”

Innovator name: Bengia Ama (VKV Student)

In Arunachal Pradesh ‘Arra’ (Bamboo basket) is one of the peculiar items found among all the indigenous people for carry all kind of load. It has been observed that sometimes when they carry loaded ‘Arra’ they are facing problem to carry their baby simultaneously.

So, the design it in such a way that it can be used for both the purposes. He has incorporated a baby carrier with it to resolve this problem.

He represented Arunachal Pradesh in 9th National Level Exhibition and Project Competition (NLEPC) organized by Department of Science & Technology, GOI, in New Delhi from September 14 to 16. Out of 6.63 lakh participants from across the country Bengia Ama project “a Modified ARRA” secured second rank.





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Delighted to know that Shri Bengia Ama, a Class 10th student from our State, has secured second rank in the 9th National Level Exhibition and Project Competition (NLEPC) organised by Department of Science and Technology, Government of India, in New Delhi from September 14-16.

A total of 6.63 lakh students from across the country participated in the competition. Guided by his teacher Shri Manoj Shah of Vivekananda Kendra Vidyalaya (VKV), Itanagar, Shri Ama's project 'Modifi... See more



7. No. of students participated:416
8. Name of the school groups participated:
- a. Govt Secondary School Nirjuli
 - b. Govt Upper Primary School, D-Sector Naharlagun
 - c. Govt Higher Secondary School, Arunodaya Itanagar
 - d. Govt Higher Secondary School, ESS Sector Itanagar
 - e. Govt Higher Secondary School, Ganga
 - f. Govt Middle School, Nyorch
 - g. Govt Secondary School, G-Sector
 - h. Govt Middle School, Yari Babar
 - i. Govt Higher Secondary School, Polo Colony
 - j. Govt Girl Residential School, Nirjuli
 - k. JP Public School, Raj Bhawan Itanagar
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: 73
- 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: 891