



Monthly Report Of Innovation Hub Arunachal Pradesh Science Centre For July 2021

Submitted to:
Innovation Cell
National Council of Science Museums
Ministry of Culture, Govt. of India
33, BLOCK-GN, SECTOR-5
Bidhan Nagar, Kolkata, 700091



Submitted by:
Arunachal Pradesh Science Centre
A.P State Council for Science & Technology
Department of Science & Technology
Government of Arunachal Pradesh
IG – Park, Itanagar - 791111

RADIATION & HUMAN BEING

Resource Person: Dr R.M Altekar (Chief Mentor Innovation Hub)

Retired Scientist BARC

Dated: 07 July 2021

Total number of participants: 73

Radiation is energy that flows or propagates through matter or space. Radiation energy can be electromagnetic or particulate. Radiation is usually classified into non-ionizing (visible light, TV, radio wave) and ionizing radiation. Ionizing radiation has the ability to knock electrons off of atoms, changing its chemical properties. This process is referred to ionization (hence the name, ionizing radiation). Ionizing radiation is the main concern for health effects since it can change chemicals' properties in the human body.

ARUNACHAL PRADESH STATE COUNCIL FOR SCIENCE AND TECHNOLOGY
DEPARTMENT OF SCIENCE AND TECHNOLOGY, INNOVATION HUB
GOVERNMENT OF ARUNACHAL PRADESH
ITANAGAR

A Webinar by Dr. Ravikant Altekar

Discussion of Radiations and its effects on everyday life.

RADIATION & HUMAN BEINGS

Date : 7th July, 2021 | Wednesday
Time : 11AM Onwards
Platform : Zoom
Meeting ID : 873 2966 1677
Password : 230563

Penetrates Earth's Atmosphere?

Radiation Type	Wavelength (m)	Approximate Scale of Wavelength	Frequency (Hz)	Temperature of objects at which this radiation is the most intense wavelength emitted
Radio	10^3	Buildings	10^8	1 K
Microwave	10^{-2}	Humans	10^{10}	-272 °C
Infrared	10^{-5}	Butterflies	10^{13}	-173 °C
Visible	0.3×10^{-6}	Needle Point Protozoans	10^{15}	100 K
Ultraviolet	10^{-8}	Molecules	10^{16}	10,000 K
X-ray	10^{-10}	Atoms	10^{18}	10,000,000 K
Gamma ray	10^{-12}	Atomic Nuclei	10^{20}	-10,000,000 °C

Mushroom cloud from the atomic explosion over Nagasaki, Japan rising 60,000 feet into the air on the morning of August 9, 1945.

Zoom Meeting

Recording

K. Saha

Subir Kumar

Anurag Prade

L.Yami

Subu Tarang

Neelam yadi

Junu gogoi

Munny Choudh...

Galaxy A7

Vivek Kumar

Priyanshu Kumar

Education asst

Chauhan

Lukar Ronyo.

Type here to search

26°C Rain

12:13

07-07-2021

Kitchen Gardening Using Hydroponic Technique

Resource Person: Dr. Jawaid Alam
National Resource Person (NCSTC)
Department of Science & Technology
GOVT of India

Dated: 13th July 2021

Total Participants: 55

The word “Hydroponic” is derived from two Greek words: 'Hydro-Water' and 'Ponos-work'. Hydroponics is the science of growing plants in the soilless condition using nutrients. The ingredients of the nutrients used in hydroponics are: Nitrogen, Phosphorus, Potassium, Calcium, Magnesium and Sulphur. Foods grown **hydroponically** have lower risk for foodborne human pathogens, less reliance on pesticides, and in some cases, can be grown using zero pesticides. Arable land is not being used for food production, thus saving it for future generations to use sustainably. Most **hydroponic** farms are in controlled environments. The biggest boon of vertical growing may be water conservation. **Hydroponic** systems give the plants only the water they need, and it is recirculated through the system.



Micro-greens by Alam's Hydroponics



DISEASES PREVAILING IN RAINY SEASON ITS PREVENTION & MANAGEMENT

Resource Person: Dr. Nabam Peter
Health Research Scientist
Department of Health & FW
GOVT of Arunachal Pradesh

Dated: 20/07/2021

Total Participants: 65

The much-awaited monsoon season is here. Providing respite from the summer heat this season is most awaited. However, monsoon also brings along numerous diseases every year due to harmful germs and viruses. The humid climate, heavy rains and windy environment spreads many infectious diseases.

How to prevent Monsoon Diseases?

Here are a few tips to follow to stay away from diseases:

1. Try to keep your home and surroundings mosquito free.
2. Use a mosquito repellent and wear full sleeved clothes while stepping out.
3. Avoid visiting crowded places to reduce your risk of viral infections.
4. Drink only boiled water.
5. Consume fresh homemade food.
6. Make sure your home is well ventilated.
7. Washing hands before eating any food.
8. Avoid touching your nose and mouth with your hand without washing them.

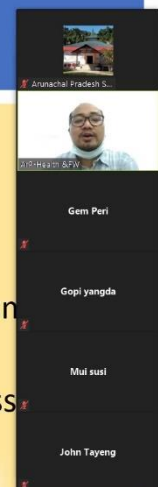
Play safe this monsoon, Eat a healthy diet and keep yourself away from mosquito bites. However if you or a family member especially children suffer from any illness, do not take it lightly. Many symptoms can be misleading and need medical attention.



Recording...

Table of content:

- When is the rainy season?
- Why more illnesses in rainy season?
- What are the common illnesses in rainy season and modes of transmission?
- Who gets affected and what are the common presentation of illness?
- How to prevent and manage it?

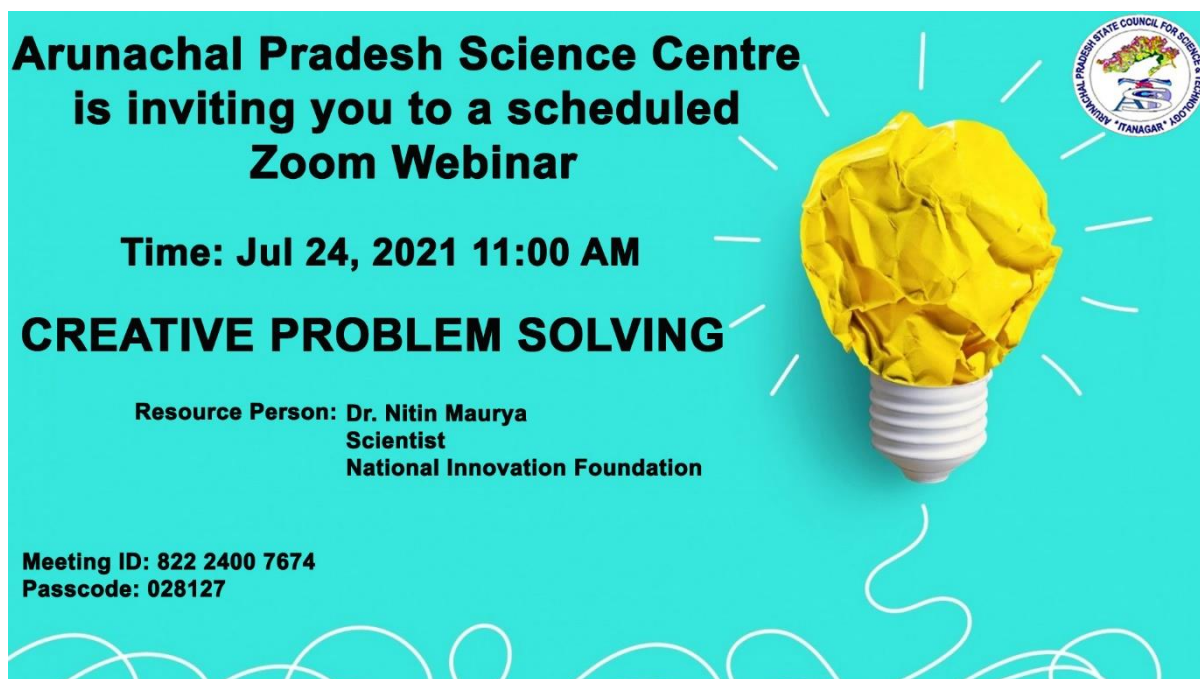


Creative Problem Solving

Resource Person: Dr. Nitin Maurya
Scientist
National Innovation Foundation

Dated: 24th July
Total Participants: 35

Application of logic, prior learning and skill to solve a problem requires investigation and improved skill ability. Creative problem solving includes problem identification, problem defining, idea generation, idea evaluation, analyse and move ahead.



Arunachal Pradesh Science Centre
is inviting you to a scheduled
Zoom Webinar

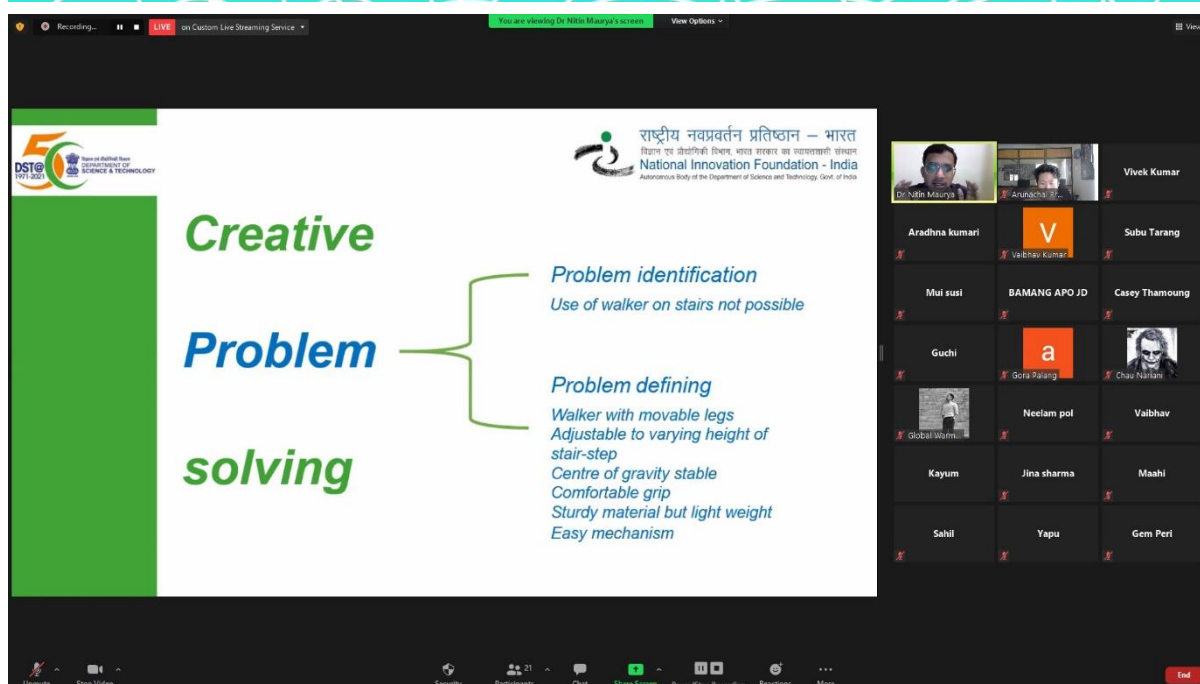
Time: Jul 24, 2021 11:00 AM

CREATIVE PROBLEM SOLVING

Resource Person: Dr. Nitin Maurya
Scientist
National Innovation Foundation

Meeting ID: 822 2400 7674
Passcode: 028127

The invitation features a light blue background with a large, glowing yellow lightbulb made of crumpled paper on the right. The Arunachal Pradesh State Council for Science & Technology logo is in the top right corner.



The Zoom webinar interface shows a presentation slide titled "Creative Problem solving" on the left. The slide content is as follows:

	Problem identification	Problem defining
	Use of walker on stairs not possible	Walker with movable legs Adjustable to varying height of stair-step Centre of gravity stable Comfortable grip Sturdy material but light weight Easy mechanism

On the right side of the interface is a grid of participant video feeds. The participants listed are: Aradhna kumari, Vivek Kumar, Subu Tarang, Mui susi, BAMBANG APO JD, Casey Thamoung, Guchi, Gora Palang, Chau Narayan, Neelam pol, Valbhav, Kayum, Jina sharma, Maahi, Sahil, Yapu, and Gem Peri. The bottom of the interface shows standard Zoom controls like 'Unmute', 'Stop Video', 'Security', 'Participants', 'Chat', 'Share Screen', 'Pause/Stop Recording', 'Reactions', and 'More'.

Individual membership	62
Institutional membership	03

Total Program Participants	:228
General total visitor	:0
Cumulative total visitor	:14869