

AAVISHKAR

17th Aavishkar: Intercollegiate Research Convention
Level 1: Undergraduate Students (UG)
Category 1: Pure Sciences

S33131

Eradication of malnutrition in Maharashtra with the help of *Spirulina*

INTRODUCTION

- Malnutrition is a serious problem in India. About 40% of children in India are malnourished showing nutrient deficiency syndromes.
- Anganwadis centres are not capable to deliver the necessary nutrients to the children.
- The mid-day meal scheme is a school meal program designed to improve the nutritional standing of school-age children across the country.
- Spirulina* is a blue-green algae which proved to be an excellent source of essential proteins, omega 3, omega 6 and vitamins. It is a superfood that competes with egg in the protein quantity.
- Spirulina* can be provided to the children studying in Anganwadis or rural areas in the form of (sake) cookies etc. that children like.

Malnutrition: All hands on deck



RATIONALE

We will go back to our roots in Maharashtra and use the rich natural resources available in the state to combat malnutrition. We will use the rich natural resources available in the state to combat malnutrition.

AIM & OBJECTIVES

- To estimate the level of malnutrition in an area of Maharashtra.
- To improve the nutritional status as defined by WHO in rural areas of Maharashtra.
- To make the farmers conscious of the benefits of Spirulina and its use in the preparation of the nutrient-rich cookies in daily diet of the children.
- To improve the nutritional status of the children in the rural areas of Maharashtra.

MATERIALS AND METHODS



RESULTS AND DISCUSSIONS

- As per data, there has been a 40% rise in the number of malnourished children in two years across Maharashtra. *Spirulina* is a blue-green algae which proved to be an excellent source of essential proteins, omega 3, omega 6 and vitamins.
- The clinical research studies and biochemical studies along with the studies on the nutritional status of the children have revealed very positive and encouraging results. It also improved cognitive health and enhanced immunity levels.

Year	2020	2021	2022
NO.	8000	9000	7000

CONCLUSION

- The main objective of *Spirulina* and its effect on various disease conditions and prevalence of using *Spirulina* in combating against Anganwadis (AWC) and Protein Energy Wasting (PEW).
- A *Spirulina* can make more profits by increasing levels with low cost. *Spirulina* material can be used as a source of protein and vitamins, which are available in the food which will reduce the cost and investment with more profit return.

REFERENCES

A. C. Anandani, C.A. Ghosh, S. B. Das. *Journal of Nutrition* 2010; 140: 1000-1011



SMART CLASSROOM

S33115

PROTOTYPE IMAGE

OBJECTIVE

1. To design a smart classroom device that can be used for teaching and learning.

2. To design a smart classroom device that can be used for teaching and learning.

3. To design a smart classroom device that can be used for teaching and learning.

APPLICATIONS

This device can be used for teaching and learning in various subjects such as science, mathematics, and English.

CONCLUSION

The device is designed to be a smart classroom device that can be used for teaching and learning in various subjects such as science, mathematics, and English.

REFERENCES

1. [Reference 1]

2. [Reference 2]

3. [Reference 3]

FLOWCHART

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    graph TD
      Start([START]) --> Step1[Step 1: Design the device]
      Step1 --> Step2[Step 2: Build the device]
      Step2 --> Step3[Step 3: Test the device]
      Step3 --> End([END])
  
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Aavishkar

Intercollegiate Institute/ Department Research Convention
 Category: 3 Pure Science Slot no: S33114
 Level: UG

Phytomonitoring of dust & analysis of Air Quality Index of some metropolitan cities of India

WHY AQI WENT FOR A TOSS

The Air Quality Index (AQI) is a measure of the degree of air pollution. It is a scale from 0 to 500, where 0 is the best and 500 is the worst. The AQI is used to inform the public about the current air quality and to help them make decisions about outdoor activities.



SMOG & THE CITY

Smog is a type of air pollution that is caused by a combination of smoke and fog. It is a common problem in many cities, especially in the winter months. Smog can be harmful to human health and the environment.

Data availed after dust pollution research at two heavy traffic roads in Mumbai measured in the end to the beginning of annual winter.



> www.aqi.in



Category: Research

Inter University Research Convention Avishkar 2022-2023

Slot No.: S31143

Level: UG

Topic: Children With Special Needs

Introduction:

People who are mentally and physically disabled. A disability is any condition that makes it more difficult for a person to do certain activity or effectively interact with the world around them.

What is the reason people face this issue?

How should we tackle this issue?

What is their scope in the future?

Objectives:

1. Help them to build a social and economic support system.
2. To create awareness about special needs around the world.

Findings:-

1. The parents r... care of the child.
2. They req... d monitory



Category: C-3

Slot No: S33134

Level: UG



Data analysis through the survey results and data collected



- Generic medicines are cheaper as they are not advertised
- Doctors don't prescribe generic medicines because they are not advertise to them
- Generic medicines are cheap and pocket friendly
- Proper medication leads to a healthy lifestyle.



cal pharm





Category 3: Pure Sciences

17th Aavishkar: Inter collegiate Research Convention
Level 1: Undergraduate Students (UG)

AAVISHKAR S33116

ACIDIFICATION OF MARINE WATER IN MUMBAI

INTRODUCTION

Ocean acidification refers to reduction in pH of ocean over an extended period of time caused primarily by up take of carbon dioxide from the atmosphere

So, the main motive of project is to analyse the acidity of water samples from sea water to know the increase or decrease in acidity over year.

Climatic change is reducing the level of oxygen in the ocean, which is causing the death of marine life. We can reduce marine temperature by using solar panels and other renewable energy sources.

REFERENCE

- <http://blacktoblueinitiative.org/>
- <http://www.researchgate.net/>
- <http://www.mpcb.gov.in/>
- <http://academia.edu/>



AVISHKAR
2022-2023 UG-C3

SMART CLASSROOM

ABSTRACT

PROTOTYPE IMAGE

FLOWCHART

CONCLUSION

REFERENCES



The poster for 'SMART CLASSROOM' is a vertical layout with a green header. It includes an abstract, a prototype image of a device, a flowchart, a conclusion, and a list of references. The text is organized into distinct sections with clear headings.