



SBSI 2020 FINAL PROJECT REPORT : GU108

submitted by

| SR.NO | NAMES | ROLL NO |
|--------------|--|----------------|
| 1 | Uttam F Shirodkar [L] | 20P0430043 |
| 2 | Aatish A Dhargalkar | 20P0430009 |
| 3 | Sahil alias Shambu Sudesh Shirodkar | 20P0430044 |
| 4 | Anvek Chodankar | 20P0430005 |
| 5 | Shreya S Shetye | 20P0430042 |
| 6 | Shreya Kauthankar | 20P0430017 |
| 7 | Meghana Naik | 20P0430024 |

Department of Physics

Goa University

2020-2021

Under the guidance of

**Dr. Rajesh Kumar Shankar Hyam,
Mentor**

Department of Physics

Goa University

**Dr.Sudhir Cherukulappurath,
Programme Director**

Department of Physics

Goa University

DECLARATION

We have carried out the SBSI 2020 Internship under the guidance of –

Dr. Rajesh Kumar Shankar Hyam,

Department of Physics

Goa University

The contents of this report are original and are reporting 108 hours of work carried out by us during this internship.

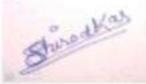
Roll No, Name and Signature of SBSI 2020 Interns:

NAME SIGNATURE ROLL NO

20P0430043

20P0430009

20P0430044

| | |
|----------------------|---|
| 1. Uttam Shirodkar |  |
| 2. Aatish Dhargalkar |  |
| 3. Sahil Shirodkar |  |
| 4. Anvek Chodankar |  |
| 5. Shreya Shetye |  |
| 6. Shreya Kauthankar |  |
| 7. Meghana Naik |  |

20P0430005

20P0430042

20P0430017

20P0430024

CERTIFICATE

This is to certify that the following

SBSI 2020-21 Interns -

| SR.NO | NAMES | ROLL NO |
|-------|-----------------------|------------|
| 1 | Uttam F Shirodkar [L] | 20P0430043 |

| | | |
|----------|-------------------------------------|------------|
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have satisfactorily completed 108 hours of activities related to Swachhata. During this internship period, it was noticed that the interns acquired and enhanced the following skills –

- 1.Gardening in Organic manner
- 2.Enlightened people on proper way of disposal of garbage
- 3.Social talking skills

This report is being submitted to SBSI 2020-21 University Nodal Officer, in partial fulfilment for the completion of the SBSI Course during the academic year 2020-21.

Name and Signature of SBSI Mentor

Name and Signature of SBSI Co-ordinator

Name and Signature of Head of Department (for University On-Campus Interns)

ACKNOWLEDGEMENT

We would like to express our special thanks of gratitude to our Dean, Dr. Kaustubh Priolkar for their able guidance and support.

We also pay a deep sense of gratitude to our Nodal Officer Mrs. Priya D Costa and SBSI Mentor Dr. Rajesh Kumar Shankar Hyam for their encouragement and guidance during the course of our internship.

Last but not the least we would like to thank our parents for helping us in various ways in times of this pandemic, and we thank God for giving us the courage and providing us with knowledge in the midst of pandemic.

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Swachh Bharat Summer Internship Report

Introduction

Following the Prime Minister's call on 2nd October 2014 for each individual to devote at least 100 hours to Swachhata through the year, the Ministry of Human Resource Development in association with the Ministry of Drinking Water and

Sanitation has launched the 'Swachh Bharat Summer Internship – 100 Hours of Swachhata'.

The program aims to:

- Develop the skill and orientation of youth for sanitation related work.
- Bring youth across the country an opportunity to make a significant contribution to **the swachhata revolution**.
- Integrate youth in the community service in rural areas in the run up to the 150th birth anniversary of Mahatma Gandhi.

The students of the Department of Physics, Goa University along with proper guidance from our SBSI mentor, Dr. Rajeshkumar Shankar Hyam and Nodal Officer Dr. Jyoti Pawar, have completed the minimum 100 hours of service towards making India a clean country, thereby putting into action the motto, “Cleanliness is next to Godliness” The students have whole heartedly completed the internship complete dedication and zeal. There have been many hurdles along the way, but we can proudly say that we gave it our all in making the beautiful village of Siolim even more beautiful by using various innovative and traditional techniques for proper management of waste.

MASK MAKING

Our main goal was focused on keeping our surrounding and village clean but due to pandemic

we were not able to do much of drives for cleaning our village.

So to get the best out of the worst situation caused by the pandemic we decided to make masks.



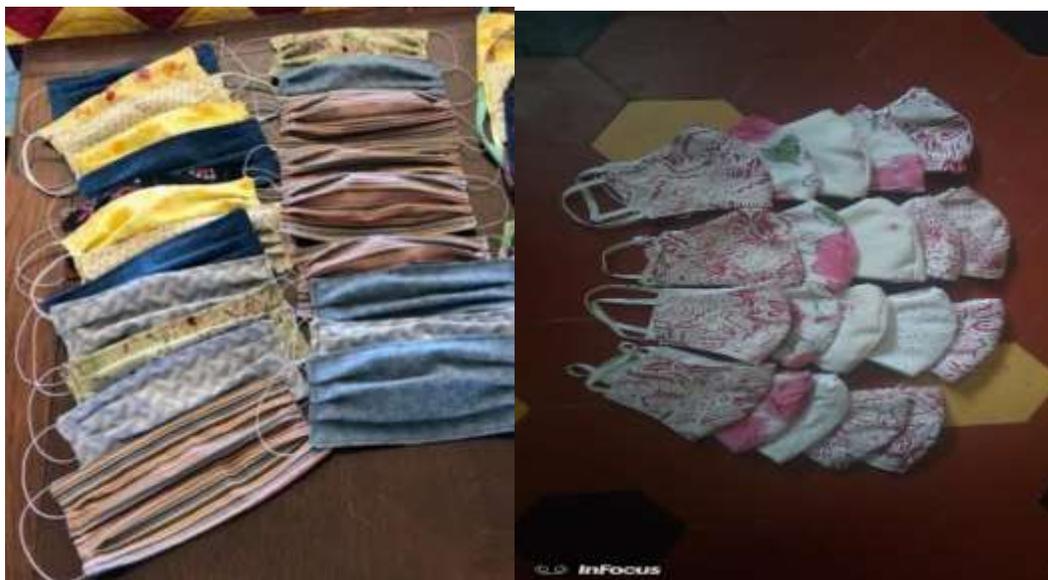
During the pandemic the shortage of mask was biggest problem so we tried to make as many masks as possible.

Although we would have loved to work with Self Help Groups to make these mask, we were limited and had to work on our own.

Our team members Uttam,Atish and Meghna made these masks at home.

We wanted to do a distribution of the masks but again because of the rising covid cases in our locality we were not able to do the same but we have planned distribute these masks to the needy after the curfew gets over.

Overall we are glad that we will be able to help needy people.



#hours taken:50



PAPER BAG MAKING AND BANNING PLASTIC

Besides masks we did work on making paper bags.
Each and every member of our team made at least
20 paper bags.





Plastic is biggest thing causing more harm than good. Since the introduction in 1907, it has caused a lot of pollution.

To tackle this in our village we made paper bags and if we get chance after curfew we will like to spread awareness about it.

All the paper bags were made using old newspaper at our homes and this in turn drives our proposal for Clean and Green Village.

Our team tried their best to spread awareness about this and we will try to ban plastic from our village.

Our team in total made 146 paper bags which we will distribute in our village shops.

In turn we would also encourage them to use paper bags and using cloth bags.

hours taken:10

The Compost Pit



Compost pit humus can be beneficially **used** to improve the quality of soil. They add nutrients and organics and improve the soil's ability to store air and water. Especially vermicompost improves the

soil structure because of the holes that earthworms have dug.



Our team member Shreya Shetye did the work of setting up a compost pit in her backyard.



Compost pit makes the wet waste for eg. Like leafy vegetables or peels of it or of fruits in lieu of dumping in the garbage the same can be used in betterment of the soil.



We had planned to get the final product from the compost pit, which we were advised from our local farmer would take 15 days ,but we were only able to continue it for 3 days as the tauktee flood spoiled our compost pit.

hours taken:1

Use of organic manure



Organic Manure

Organic manure is defined as the product resulting from the controlled biological decomposition of organic matter.

Manure can be prepared from :

- yard trimmings
- biosolids (sewage sludge)
- wood by-products
- animals manures
- crop residues
- biodegradable packing
- food scraps





Our team member Shreya Shetye helped in using the manure for the plants in the neighbourhood. Organic supply plant nutrients including micronutrients.

It improve soils physical properties like structure, water holding capacity etc.

They increase the availability of nutrients.

Carbon dioxide released during decomposition acts as a CO₂ fertilizer.

Plant parasitic nematodes and fungi are controlled to some extent by altering the balance of microorganisms in the soil.

hours taken:2

WALL PAINTINGS AND AWARENESS PROGRAM



Our members have been promoting banning of plastics and proper waste segregation through posters and wall paintings.

Here we see in one poster that plastic waste leads to degradation of our environment and we must not use these plastic bags, and in other poster we see that we must properly segregate our waste so it is easier to recycle.



In the above image our member Atish made this poster so we can spread awareness about

importance of cleanliness around us and everywhere. He further requested a neighbour, who is a nurse, to put this poster in the local health centre and she was really helpful in doing the same.

It's true that cleanliness is next to godliness as keeping our mother nature clean can greatly affect our lives.



In this poster our member Shreya Kauthankar explained us how we can and should wash our hands. Washing our hands properly can have great impact on our lives.

It protect us from bacteria and viruses, and it is of great importance during pandemic to always wash our hands.



In this poster, made by Sahil Shirodkar, we see that

how plastic and other harmful substances can adversely effect our mother nature.

So we should always segregate our waste properly and help to plant more trees.



Here our member Sahil posted one of the painting in our locality to highlight importance of using soap and alcohol based products.

These products can reduce diseases especially during pandemic.



We all know importance of planting trees and cleanliness around our locality.

But reminding ourselves and others about is of great importance.

So this poster highlights the importance of cleaning and planting more trees.



Here our member Meghna tried to highlight importance of waste management.

We should not burn our plastic and organic waste in our homes as it is harmful for environment.

Instead we should try to segregate it properly and use dustbins given to us by our panchayat.

This also highlights that wasting food is a bad idea and we should only take in few amounts and not let it go to waste.



As we have seen earlier proper segregation of waste is a must.

This helps concern authorities to easily recycle the waste.

We should always encourage this types of technique. Not only it helps in proper recycling but helps us to save resources and time.

hours taken:30

Eco friendly agricultural practices

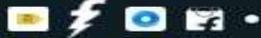


Here our team member Shreya Kauthankar, with the help of her relative planted coconut saplings with means eco friendly agricultural tools. Like, cow dung, soil fertilized with earth worms.

hours taken:10

Social awareness done through platforms

5:28



4.00 KB/S VoLTE 4G 13%

← My status



9 views
Today, 4:07 PM



10 views
Today, 3:47 PM



10 views
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10 views
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10 views
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Today, 3:47 PM



Your status updates will disappear after 24 hours





My status

Yesterday, 3:17 pm

Viewed by 24



Uttam Xaviers

Yesterday, 10:03 pm



Enayath

Yesterday, 9:29 pm



Shaby Menduvadey (Sagar)

Yesterday, 8:40 pm



Shreya Shetye

Yesterday, 7:07 pm



Shanti Maushi 2



← My status



48 views
Yesterday, 5:38 pm



49 views
Yesterday, 5:38 pm



49 views
Yesterday, 5:38 pm



50 views
Yesterday, 5:37 pm



50 views
Yesterday, 5:37 pm



50 views
Yesterday, 5:37 pm



← My status



15 views
Today, 2:45 am



15 views
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15 views
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16 views
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My status

Today, 3:01 pm

Viewed by 33



Prachi(St)

43 minutes ago



Shaki

Today, 5:49 pm



Samruddhi

Today, 5:39 pm



Senket Shetye

My status



92 views

Today, 5:17 pm



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3:40 PM 165KB/s

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sahil.s25 24h



3:40 PM 240KB/s

4G 64



sahil.s25 24h

26 April 1986, a disaster bred by Human greed and error that shook the foundations of the Pripyat centre.



Often people tend to forget and pay attention to the awareness created by volunteers or any responsible people about any particular topic, but are actively busy on social platforms and phone to check out various news or activities, this is where social awareness through platforms come in handy and we were fortunate enough to spread awareness through it.

All of our team members spread all our wall paintings/posters on social platform which considerably got quite a lot of views.

In addition to all the things above we also created two videos one to create awareness about environment and to explain the importance of World Environment Day and in other video we tried to create an awareness on keeping our mother earth clean. We all have collectively expressed our concerns in form of words scripted by us towards importance of cleanliness and also showed the use of Social platforms can be used for better good than

self interest.

All the necessary editing procedures, compilation, script writing is being done by us.

hours taken:5

CONCLUSION

The SBSI Internship was a great learning experience for us. It taught us that the nature which we take for granted most of the times is the most important thing in our life than any other. A safe environment plays a major role of existence of life on earth, and if we do not respect this very friendly nature than it will not take much time to become our foe. And that it is our responsibility to take care and nurture this environment and our surroundings, as to quote the great writer Lady Bird Johnson, 'look after the land and it will look after you, destroy the land and it will destroy you'. Apart from all the activities we did ,we also learnt many new things like teamwork, planning, coordination, and many other things. Hope that similar internships and programmes like this will be held more often and our group is committed not to stop just over here but to continue with this project in our localities.