





## SWACHH BHARAT STUDENT INTERNSHIP (SBSI) UNIT **School of Biological Sciences and Biotechnology**

**GOA UNIVERSITY** 

# **PROJECT REPORT**

By SBSI Interns MSc Microbiology Part 1 2021-22 :

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Mentor: Dr.Trupti Asolkar

**Coordinator: Dr.Milind Naik** 

#### ACKNOWLEDGEMENT

We would like to express our gratitude and appreciation to all those who gave us the possibility to complete this student internship course. We would like to express our deep sense of gratitude to Goa University for incorporating the Swatch Bharat Student Internship as a course, which helped us understand the importance and gave us an opportunity to contribute to our community and environment. Special thanks to our mentor Dr. Trupti Asolkar and coordinator Dr. Milind Naik for taking up our queries and guiding us at each and every step throughout this programme. Special thanks to our friend Ms. Saiely Shirvankar for being kind enough to invest her time and share with us her valuable insights on composting and microgreens.

Lastly we would like to acknowledge the crucial role of the staff, other respected teachers and our fellow classmates for their cooperation during this period.

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#	Theme	Activity	Place	Estimate Time
1	Waste Management (Community / Adopted Village)	Create awareness on waste management	Varca,Anjuna,Morjim,Moira,Mapusa	15
2	Greenery (Community / Adopted Village)	Eco-friendly agricultural practices	Varca,Anjuna,Morjim,Moira,Mapusa	3
3	Greenery (Community / Adopted Village)	Kitchen garden/Terrace garden	Bastora	5
4	Energy Management (Community / Adopted Village)	Awareness about energy saving measures through wall paintings in adopted villages	Varca,Anjuna,Morjim,Moira,Mapusa	5
5	Sanitation & Hygiene (Campus)	Clean buildings/rooms	Taliegao	1
6	Sanitation & Hygiene (Campus)	Clean surroundings	Taliegao	3
7	Education Outreach (Campus)	Demonstration of scientific exhibits in Schools and Colleges affiliated to Goa University	Taliegao	70
			Total	102

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ACTUAL HOURS :				
THEME	ACTIVITY	PLACE	ESTIMATED TIME	ACTUAL WORKING HOURS
Waste management (community/adopt ed village)	Create awareness on waste management	Varca, Anjuna, Morjim , Mapusa, Moira	15 hours	15hours
Sanitation and Hygiene (campus)	Clean surroundings	Taliegao	3 hours	3 hours
Greenery (community/adopt ed village)	Eco friendly agricultural practices	Varca, Anjuna, Morjim , Mapusa, Moira	3 hours	4 hours
Greenery (community/adopt ed village)	Kitchen garden/terrace garden	Varca, Anjuna, Morjim , Mapusa, Moira Bastora	5 hours	10 hours
Sanitation and Hygiene (campus)	Clean buildings	Taliegao	1 hour	2 hours
Educational outreach	Demonstration of scientific exhibits in schools, colleges affiliated to Goa University	Taliegao	70 hours	57 hours
Energy Management (community/adopt ed village)	Awareness about energy saving measures.	Varca, Anjuna, Morjim , Mapusa, Moira	5 hours	10 hours

ActivityPa nuEducational outreach- Volunteering for Vigyan Savtra Pujayte6-1Educational outreach- Rangoli19
Educational outreach- Volunteering for Vigyan Savtra Pujayte6-1Educational outreach- Rangoli19
Educational outreach- 19 Rangoli
Greenery/ Waste management-211. Vermicomposting and microgreens232. Microbial Inoculants243. Essential oil making254. Candles from waste wax265. DIY Planters276. Replacing daily utilities with sustainable ones27
Sanitation and Hygiene – Cleaning of campus and classrooms 28
Energy Management- MEME making competition 29









Venue: Goa University Block E

We reported in at 9:30 am.

We arrived at the Auditorium which in the school of chemical sciences where the talks were to be held. The registration desk was organised. All the data log entry tables were made. Folders to be given to the visiting students and guests were prepared which included a brochure, pen, notepad, and lunch coupon, 200 of these folders were prepared. Once school participant started coming in we registered each school and were assigned to help them out to navigate the venue and to handle any queries from them. We also wrapped the potted plants to be given as a token to welcome to the honorary guests.

The inaugural ceremony was held at 10:30am. We presented the dignitaries with the potted plants. And following the opening ceremony some of us attended the lecture on 'Advancements in Ayurveda' by Prof. Anura Bale, Principal, Gomantak Ayurveda Mahavidyalaya & Research Centre. Simultaneously some of us were posted at the jubilee hall where we helped in the setting up of stalls for the science expo. We helped Prof. S.P. Kamat set up the stall for his demonstration of the microscale chemistry experiments. There was also a stall which showcased zoological specimens, chemistry project banners from our university itself and we were in charge of that stall. We organised all the specimens in the stall, put up the posters and later explained what the specimens were, how they were preserved, and interesting facts about the specimens to the visiting students. We also set up all the tables and chairs at the jubilee hall for the students who'd be visiting post lunch from the Block E venue.

We distributed refreshments to the students after the 1<sup>st</sup> lecture at the auditorium at Block E. Made sure everyone was served. The 2<sup>nd</sup> lecture commenced soon after. After that we escorted them in order to the canteen for lunch. The students were than taken to the silver jubilee hall to visit the various stalls. The hall was then set up for the demonstration of the microscale experiment demonstration by Prof. S. P. Kamat. We helped the students sit in groups and we distributed the experiment kits to them. We made sure that they followed the instructions given by Prof. Kamat properly and guided them if they were confused. We helped clean up the area after the demonstration was over.

We bundled up the certificates according the participants and the schools. Dates were written on the certificates and gave them to the respective school representative. We also prepared more folders to be used the next day. We made sure the posters were still held up by tape and secured them back if they came down. The zoological specimens from the stall were taken back to their respective laboratories at the end of the day.

The activities were wrapped up at around 5pm.





Helping set up the Microscale stall

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#### Day 3: 24<sup>th</sup> February 2022

#### We reported in at 9:30 am Venue: Goa University block E

In the morning as usual we started assembling the folder with brochure, pen, notepad and lunch coupons for them to be distributed to the new participants across various schools and colleges in Goa. We ensured that each and every participant received the folder, and their names were registered in the log book along with details. We arranged their sitting in the auditorium to attend Lecture by Dr. Vinay Kodalkar, NIMR, Goa Field Unit, Panjim on the topic 'Mosquito, Malaria and advances in malarial eradication'. After the talk, we provided refreshments to all the students staff and speaker. Following that was a talk on "Homeopathy - Science of Similia" by Prof. Roshani. Shirwaikar, Offg. Principal, Shri Kamaxidevi Homoeopathic Medical College, Shiroda, Goa. Meanwhile some of us were given a task to take printouts of few more posters and buy stationary materials required to decorate the Jubilee Hall. To do the same, we travelled to the printing press in Panjim city and took the printout of the posters, assembled them properly, also bought stationery material such as duct tapes, double side tapes, scissors, cutters ribbons etc. and reported back to jubilee hall. Now we had to put up around 100 new posters which we had printed on the day itself as well as on the previous day. We stuck these posters onto the respective stalls as well as fixed the previous posters to prevent them from falling. "Vigyan Sarvatra Pujyate" banners were also installed across the jubilee hall. Students and chief guests for the day were escorted to the cafeteria for lunch in the afternoon while some of us made the arrangement in the jubilee hall for the expo in the evening session. We helped to install a new food stall by Siddhi Vinayak Prassanna S.H.G. We helped them arranged their numerous items on the front desk. Post lunch, participants were escorted from block E to the Jubilee Hall. At the Expo, we were also in charge of the specimen stall same as day 1 & day 2 and we explained the new students about the preservation of specimens as well as gave brief introduction of the specimens preserved. After the expo, we were given the responsibility of escorting the students to the Miramar Science Centre. We accompanied students at the venue. We helped manage the students while they were engaged in 3D show, movie at the planetarium and then taken to look at the science experiments displayed at the institute. At the end of the day, participants departed from the venue and us volunteers reported back to the Goa University campus and wrapped up the activities. We left the campus at 6pm.



Assigned to the Registration counter









### Day 4: 25<sup>th</sup> February 2022

We reported the venue at 9.30am.

Venue: Goa University Block E

As soon as we reached the Auditorium, we prepared the folder work that is, arranging the folders with pen, brochure, notepad and lunch coupon which were to be given to the teachers and students from various schools and colleges who attended the event. By around 9.45am the students & teachers from the respective educational institutions started to arrive and some of us were engaged in distribution of the prepared folders to them and others were allowed the duty of their registration in registration book. Once all the school students and teachers arrived, we helped them to be seated in the auditorium hall taking into consideration the covid SOP's where we maintained social distancing by making them sit alternatively. Some of us attended the first lecture by Dr. Sulakshana Vernekar, GGP Raiturcar College of Commerce and Economics, Ponda on 'Artificial Intelligence for Agriculture' which was from 10.00am -11.00am after which we helped providing all the students and teachers with tea and snacks and other requirements.

Movies were also screened at 2 venues, at auditorium and silver jubilee hall were scientific movies based themes were showcased, Radio talks were held in the auditorium as apart of Science Festival wherein we were made to look after if the video and audio was visible and audible to everyone and if not we reported it to the respective authority.

After the break we took the students back to the auditorium hall for the 2<sup>nd</sup> lecture which was by Dr. Judith Braganza on 'COVID-19 Vaccines'. Dr. Jivan Parab, SPAS, Goa University, was the chairperson for the session. This session ended at around 12.30 pm after which we escorted the students and teachers for lunch which was served upstairs of the auditorium hall. Post lunch students were taken to Silver Jubilee hall to visit the various stalls wherein we were given duties to look after a group of students and be with them just in case they needed our help. Later, the students were taken to visit the ICAR, old Goa, wherein we took responsibilities of groups of students and helped them where they were given a guided tour of the botanical garden.

At the end we made sure that each and every student under us was safe and we dispersed from ICAR at around 5.00pm and the event for the day was wrapped up.



Assigned at registration counter



Helping participants with the science demonstration







#### Day 5: 26<sup>th</sup> February 2022

#### Venue: Goa University Block E

We reported at the venue at 9.30 am and started arranging the files and folders for the students along with pen, notepad and lunch coupon at the registration desk. We helped the students and teachers coming from various schools, higher secondaries and colleges by guiding them to the auditorium. we helped them to be seated in the auditorium hall taking into consideration the covid SOP's where we maintained social distancing by making them sit alternatively. A talk was given by Dr.Digambar Parab, SCS, Goa University, on the topic "Lighting and display technologies". During the break we helped in providing the students and teachers with refreshments. We also started preparing for the competitions in the Jubilee Hall as well.

Some of us stayed back at the registration desk while some went to the Jubilee Hall for the preparations for the competitions. We started by drawing squares with chalk for the Rangoli competition. We helped in designing the boards for the competitions. We also arranged the chairs and tables for the participants in the Jubilee Hall. Some of us were present at the block E at the registration desk for taking entries for the competitions. We assisted in taking the participants to the place of competition i.e., Jubilee Hall. Once all the participants had arrived, we helped them in allotting then their places. We kept track of the time limit for the competitions. They were also provided with refreshments.

In the afternoon, when the competitions were done, we were involved in bringing the participants to the block E for the lunch. Once the lunch was over, we guided them back to the Jubilee hall for Dr.S.P Kamat's lecture cum demo on "Hands on scale microscale" experiments. We helped the students with the experiments demonstrated by him. We made sure that each and every student understood the concept that was explained. Once all the activities were done at around 5pm the students dispersed and we made sure the place was cleaned and kept ready for the next day's program.



Helping in preparations for the competitions









We reached Goa university block E at around 9.30am and started to make folders as per requirement. About 50 folders were prepared by including pen, brochures, lunch coupons, and notepad. While folders were being prepared various schools started to arrive hence some of us got involved in distributing the prepared folders while others started making some more such that we don't fall short of any. Side by side few volunteers helped the school students and teachers to be seated and showed the way to the auditorium hall. Required covid SOP's were maintained. At around 10.00 am the 1<sup>st</sup> talk by Dr. Subramanya N. Prabhu, ScE, ADE, DRDO, MoD, Gol, Bangalore on 'Looking ahead Science & Technology roadmap for next 25 years', started wherein some of us were involved to look after students in the auditorium hall as at the end of sessions questionnaire was done and we as volunteers were involved for helping with the same. After the session ended, we took the students for refreshments and provided them with tea and snacks. After break we brought the students back to the hall.

The 2nd lecture was on "Sea Ice Changes in Warming World", by Dr.Avinash Kumar, Scientist E, NCPOR, Goa. For this session some of us volunteers helped students in the auditorium to experience the virtual reality tour in an orderly manner while some were given duties in the silver jubilee hall to look after the stalls and help install new stalls by arranging the tables, chairs, and their posters and saw to it that everything went smoothly.

Students were then taken for lunch upstairs of the hall and this ended by around 12.30 after which we helped the students reach silver jubilee hall at the expo where Lecture cum Demo on 'Hands on micro-scale experiments in environmental chemistry to understand, How Pollution of Air Affects our Environment' was given by Prof. S. P. Kamat, SCS, Goa University. We helped Dr. Kamat in providing him the required requirements that he asked for from his stall and also helped the students to do the experiments. We helped them get their doubts cleared in case they had any. We made students to sit in small groups and for each group a micro-scale apparatus kit was given wherein they could perform the chemical tests at the table. After the expo, we were given the responsibility of escorting the students to Goa Science Centre. We accompanied students at the venue. We helped manage the students while they were engaged in 3D show, movie at the planetarium and then taken to look at the science experiments displayed at the institute. At the end we made sure that each and every student under us was safe and we dispersed at around 5.00pm and the event for the day was wrapped up.



Helping to conduct the activity regarding the virtual tour to Antartica.



#### Day 7: 28<sup>th</sup> February 2022

#### Venue: Goa University Block E

The valedictory function started at 10.30 am in the block E auditorium. We reported at the venue at 9pm to begin the preparation for the closing ceremony. We all were dressed in formals. We went to the market to get flowers for putting flower rangoli around the Diya. We then decorated the Diya for the closing ceremony for the event. We arranged the chairs and tables for the chief guests on the stage. We helped in arranging the prizes and the trophies for the winners in the tray to be given by the chief guests to winners of the competitions. We wrapped potted plants and presented the dignitaries with the potted plants. We also guided the artists who performed for the ceremony to the restroom and provided then with refreshments before their performance. We also helped in accompanying the winners and the artists for lunch after which the function ended. We stayed back to clear the registration desk by keeping the remaining files, notepads, pens at the respective places. We then went to the jubilee hall to remove all the posters and clear the hall





Helping in preparing the tokens for guests





Removing of posters and cleaning at jubilee hall



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### Time Invested: 7 Hours

The NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL (NAAC) were to visit Goa University in order to conduct assessment and accreditation of the university on 4<sup>th</sup> April 2022. Thus, the preparations for their welcome started in advance. Some of us students of the SBSI course were involved in putting rangoli for their welcome.

On the 1<sup>st</sup> April and 2<sup>nd</sup> April, we invested our time in searching for different types of rangoli designs. The designs were supposed to be put at 3 locations at the Goa University campus. The 3 locations were, at the library block, School of chemical Sciences (entrance) and Block E Department of Microbiology (School of Life Sciences and Biotechnology). After the designs were finalised on 1<sup>st</sup> and 2<sup>nd</sup> April we showed them to our in charge Dr. Milind Naik Assistant professor, Microbiology, Goa University and he gave us permission to go ahead with our work.

We then invested our time as and when we got free from our academic work i.e lectures and practical's in drawing the outline of the rangoli designs which took us about 1 hour. Once we finished drawing outline at block E Microbioloy department, we headed towards the Chemical Sciences Entrance to do the same in the evening which took us another 1 hour.

We also created a WhatsApp Group for the same to discuss about the smooth going of the programme and also spread a word about it to our seniors and teachers to help us with the same for which our seniors and teachers agreed to help. After this, we travelled Mapusa, to order the rangoli in bulk. This took time as we had to list down the required colours and quantities in Kg's such that we don't fall short. The next day we again travelled to Mapusa from Goa University and with the help of our sir, Dr. Milind Naik we bought the bulk rangoli from the shop.

On 3<sup>rd</sup> April 2022 which was a Sunday, one of us was allotted the duty of getting snacks for all other volunteers who were to help with the rangoli. By 9.30am on the same day we reached Goa University Block E campus and brought all the requirements at once place in order to start filling up and drawing the final rangoli. At 10.00am we started filling rangoli colours. By 2.00pm we were able to wind up with 1 rangoli at Block E while other volunteers were working on Rangoli at the library building. We had our lunch and headed towards school of chemical sciences to put the rangoli, we were able to do the final touches by 4.45pm after which we cleaned the mess, swept the floors and kept the place clean and tidy and we wrapped up at 5.00pm.

The next day on 4<sup>th</sup> April 2022 we arrived at the Block E by 9.00am. We placed the flower pots at the respective locations that is at the entrances of the building and also watered them, also lit the small divas for the welcome of NAAC. The NAAC visit took place on 4<sup>th</sup> April 2022.

Rangoli at Block E entrance









Rangoli near Microbiology classroom 1





#### **Time invested: 8 hours**

We approached one of our own colleagues Saiely Shirvankar. She did her bachelors in Microbiology from St. Xaviers College, Mapusa and is currently pursuing Masters in Environmental Science at Dyanprasarak Mandals College. Saiely Shirvankar is a plant enthusiast and has her own Instagram account called: apni\_suppandi where she posts about how to take care of plants, how to grow them, composting, and everything plant related.

We requested her to give us a run down on vermicomposting and microgreens and she agreed. We left our university campus at 1:30pm on the 30<sup>th</sup> of March and travelled down to her residence at Bastora where we reached around 3pm. We gave her a brief idea of what we wanted her to talk about and set up the camera to record the video.

She started with vermicomposting. She spoke about how almost 50% of the waste generated at our home is organic and that composting is the best method to tackle this waste. Vermicomposting is a more efficient way to compost our organic waste. Sailey gave the step by step process of just how to go about vermicomposting, the kind of waste that goes into the compost pit, why using worms is better than normal compost, waste to avoid putting in the bin, harvesting of the vermicompost, sun drying it, its utility and she explained how to make your own cocopeat.

After that she answered all the questions/doubts we had regarding vermicomposting. All this was recorded in a video.



Next, she talked about microgreens. Microgreens are vegetable greens harvested just after the true leaves show. Microgreens are packed with tremendous amount of nutrients even more so than their full grown counterparts. Saiely gave us a detailed session on the method of propagation of microgreens, the kinds of microgreens available, health benefits .

She answered all our queries following that. The whole session was documented in the form of a video. We were done with all the recording sessions by 7:00pm.

The videos of vermicomposting and microgreens were edited and processed which took around 2 hours. The videos were later posted on our Instagram account: @one step at a time The videos were promoted by sharing it through WhatsApp and Instagram as status/stories and direct messages.



### **Theme: Waste Management Time invested: 3 hours Microbial Inoculant** Date: 17/02/2022

Under the theme "Waste Management", one of the tutorials we did was on Microbial Inoculant. It is a highly concentrated suspension of bacteria which on dilution can be used for different purposes such as:

1)Can be added to the compost pile which will help in faster decomposition as well as helps to control the odour.

2)Can be sprayed on plants as it decomposes complex organic matter in the soil and eases nutrient uptake by plants.

3) Used to clear clogged drains by decomposing the clogging matter.

To make this inoculant, we took a small cup of rice & washed it with water. The water was collected in a bowl and kept for a week with a loose covering. The supernatant was taken in another bowl & cup of milk was added to this and was kept for another week. After a week, the solid white mass was discarded and the liquid was strained. (This is our Microbial inoculant which can be either directly used by diluting it with 1;1000 parts of water or can be stored for further use by adding equal amount of molasses and should be kept in the fridge.) Photographs were taken at each step. These photographs were then edited with the caption using a photo editor. Also the thumbnail was designed using the same. This tutorial along with some additional information was posted on our Instagram handle @one\_step\_at\_a\_time.



I. Take a small cup of rice in a bowl



Keep it loosely covered with lid for a week at Room temperature



7. Keep it loosely covered for a week at Room temperature week at Ro



2. Rinse it with water



5. Strain the liquid and discard the sediments



8. Strain the liquid and discard the solid mass



3. Strain the liquid

6. Add doublertriple volume of milk to it



9. The inoculant is ready

### Theme: Waste Management Time Invested: 3 hours Extraction of Essential oil from flowers

Date: 16/5/2022

Under the theme" Waste Management", one of the tutorials we did was on extraction of essential oils from flowers.

Flowers play an important role in Indian culture, lying at the heart of festivals, weddings and religious ceremonies. However, temples only get one day's use out of flowers before they dispose of them, leaving two million tonnes of floral waste each day.

Having been used in religious spaces, these flowers cannot be treated in the same way as other waste. Instead, they are disposed of in open lands or water bodies, polluting them in the process. Organic matter from the rotting flowers contributes to the growth of algae, which drains oxygen levels in water and can cause marine life to die.

One solution to this problem could be, that the flowers be used to make essential oils. Essential oil contains several therapeutic components that can help you fight acne, slow down the aging process, and improve mood.

### How to make Jasmine essential oil

Jasmine essential oil consists of the concentrated essences of jasmine and is a highly sought-after oil because of its timeless, floral scent

To make your own jasmine oil, spread fresh jasmine buds out on a 12-inch by 12-inch muslin cloth. Avoid using flowers that are wilted or bruised. Add the flowers into a glass jar containing organic carrier oil, make sure the flowers are immersed in the oil.

Apply pressure to bruise the contents, and place the jar in hot water to help draw out the essential oils. Secure the lid of the jar and place it in a cool, dark place for 24 hours. After 24 hours, Remove the contents from the into a muslin cloth and squeeze it to extract as much oil as you can. You can repeat the process with the same oil to get a stronger smelling oil.

Your homemade essential oil infused with flower essences can be used in a multitude of ways. You can use it as massage oil, use it to scent potpourri or a sachet, or even add it to your own homemade beauty products, such as candles

Photographs were taken at each step. This tutorial was posted on our Instagram handle as a reel @one\_step\_at\_a\_time.



**Candles from waste wax** Date: 21/05/2022

If you want to use scent to create a soothing atmosphere in your home, lighting a candle achieves this effortlessly that is, until your candle wick has completely burned and no longer catches flame, the candle can no longer burn. What remains is leftover candle wax along the sides and bottom of the jar. Once a candle melts, that's it, right? Not exactly.

Instead of throwing it out, you should reuse the candle wax from old candles to make new ones. You can mix and match different melted waxes from old candles to create new blends. Choosing the vessel for your recycled candle renders a similar artistry. Perhaps you have a coconut shell lying around or an old teacup as I have used.

How to make your candle?

First gather all the waste wax and old burnt-out candles, prepare your vessel with a wick attached to the bottom with help of a little dough.

Melt the wax on a stove in a metal tin. Once the wax has melted switch off the flame and add a few drops of any essential oil for fragrance. Mix and pour into your vessel. Keep the wick in the centre with help of a stick. Let the wax cool and your candle is ready!

Photographs were taken at each step and was used to create a reel. This tutorial was posted on our Instagram handle as a reel @one\_step\_at\_a\_time.



**Theme: Waste Management Time Invested: 2 hours DIY Planters from plastic bottles** Date- 30<sup>th</sup> May 2022

Out of everything we put in our recycle bins at home, approximately 50 percent of it is never recycled Globally almost 100000 plastic bottles are sold every minute .80 percent of plastic water bottles end up in landfills. It takes up to 1,000 years for every single bottle to decompose. So imagine the kind of threat they pose to the environment. Some things we can do to curb this problem could be: Switching to /Carrying your own drinks in reusable bottles instead of purchasing bottled water, considering options like aluminium cans over plastic bottles, recycling, reusing

One way to recycle these plastic bottles could be: Making your own self watering planters. These are containers that provide a consistent, stable moisture conditions for the plants without you having to regularly monitor and water them. Water is poured directly into a water reservoir and then "wicked" into the planting container above the reservoir. So we made a step by step tutorial for making your own planter and posted the same on our Instagram handle.

**STEPS INCLUDED:** 

- Cut the top off the plastic bottle. •
- Poke a hole through the bottle cap (using a heated wire or screw driver). •
- Feed a piece of rope/cotton cloth/twine through be hole( material that can soak water) •
- Fill the bottom with water. •
- Place the top half of the bottle upside down over the lower half. •
- Put soil into the upper half and place your plant or sow your seeds in it.

























Under this theme we organised a meme making competition.

The competition was titled" Unintentionally Ignorant". The basis for choosing this theme was from our Instagram account concept of 'one step at a time'. The title basically refers to our everyday/mundane actions that seem perfectly harmless to us but actually cause energy wastage. Actions that exploit energy, of which we ain't aware of. The title of the topic took a lot to time to be finalized. Brochure for the meme competition was prepared using canva app and took 2 hours to create. The competition brochure was posted online on 23<sup>rd</sup> April 2022 and entries were accepted till 29th April 2022. Brochure was circulated through social media platforms to different colleges and institutes. Promotion of the competition was given a lot of importance. There was no age limit to participate, entries were accepted in the jpeg format. A google form was prepared for the registration of participants and for the submission of entries took about 5 min. We got a total of 10 entries. The judges for the competition were Dr.Trupti Asolkar- Assistant Professor, Department of microbiology, Goa university; Mr. Sarvesh Halankar-student MSc Microbiology, Goa University and Mr.Leo D'souza-MSc Chemistry and Currently a PhD aspirant at Goa University. The entries were judged based on originality, humour, creativity, template usage and relevance to the theme. The judging sheets were prepared and sent to the respective judges. The judges responses were complied and the winner was declared. We also designed the certificates which were awarded to the participants and the winners this took 2 hours. The winning meme entries were posted on our Instagram account @one\_step\_at\_a\_time.







VACHH BHARAT STUDENT INTERNSHIP (SBSI) UNIT DEPARTMENT OF MICROBIOLOGY FACULTY OF LIFE SCIENCES & ENVIRONMENT

**GOA UNIVERSITY** 



Design of the flyer

Theme: Unintentionally ignorant Actions that exploit/waste energy that people do but aren't aware of RULES:

- The theme is open for individual interpretation
- No foul language or vulgar content
- Format: jpeg (File size: below 1 MB)
- Judging Critera: Originality, Relevance to theme, Humour, Creativity, Template usage

• Age limit: None, open to all

Last date for submission 26th April 2022 via google form:

https://forms.gle/yLfim9MJEwiXYj9Q8 Organizers: SBSI Interns M.sc Part 1 2021-22 Ms. Misha Cardozo Ms. Leanne Dsouza Ms. Yuvrani Halarnkar Ms. Rochan Mahale Mr. Sarvesh Halankar For any quaries email mishacardozo2@gmail.com

Mentors/ Coordinator :: Dr. Trupti Asolkar Dr. Bhakti Salgaonkar Dr.Milind Naik



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