



Parvatibai Chowgule College of Arts and Science
Autonomous

Accredited by NAAC with Grade 'A' (CGPA Score 3.41 on a 4 Point Scale in 3rd cycle)
Best affiliated College-Goa University Silver Jubilee Year Award

GREEN INITIATIVES

2019-2020



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Report on “Shramdaan”

N.S.S. unit of Parvatibai Chowgule college of Arts and Science, Autonomous organised “SHRAMDAAN” to commemorate 150th birth anniversary of Mahatma Gandhi on 2nd October 2019. During SHRAMDAAN, all the participants were distributed in five groups and were allotted 5 different areas of the college campus. It included 2 wheeler parking area, four wheeler parking area, area near canteen, woods, and tiger activity centre. Total 77 teaching staff, 36 non-teaching staff and 197 NSS volunteers (166 female and 31 male) actively participated in this cleanliness drive and collected all the accumulated waste from in these areas. Special care was taken to segregate the plastic and other non-biodegradable waste from the biodegradable waste. The teaching staff also contributed towards cleaning the staff room in addition to cleaning the allotted college campus area. All the N.S.S. programme officers contributed efficiently for making the activity a successful one.





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GREEN INITIATIVES / ENVIRONMENT PROTECTION INITIATIVES

BY

STUDENTS OF SEC COURSE ON WASTE MANAGEMENT TECHNIQUES(2019-20)

Guiding teachers: Dr. Nandini Vaz Fernandes, Ms. MadhuBalekai, Ms. Tessa Vaz & Ms. Gautami Manakikar

NAME OF THE STUDENTS	DETAILS	PHOTOGRAPHS
1. NeehaBorkar 2. AnchalNaik 3. Shreya Naik 4. Shreya Pai 5. ShivaniBehki	<p align="center"><i>CAMPAIGN AGAINST SINGLE USE PLASTIC</i></p> <p>The students designed pamphlets to create awareness regarding the ill effects of single use plastic on the environment and encouraged carrying own cutlery. They also carried out a survey to know about the waste management, segregation and disposal at households in Gogol area. The students collected waste cloth materials and gave it to 'Mudra Prathistan' who designed cloth bags. These were further distributed to the local people.</p>	
1. HeeraKossambe 2. MelvitaAlvares 3. Kendrick Fernandes 4. Ashish Kumar Yadav 5. Quelifa Gomes	<p align="center"><i>4RSAND TECHNIQUES OF WASTE DISPOSAL</i></p> <p>12-10-2019</p> <p>The community outreach activity was carried out in order to create awareness on Waste Management techniques and to provide ways of reducing waste. The students visited various hotels in Arlem and explained about the different methods of waste disposal.</p>	
1. RizellBarretto 2. Dipti Singh 3. Anouska Mascarenhas 4. Natasha Fernandes 5. AaralyneOzorio	<p align="center"><i>AWARENESS ONSANITATION - COLLEGE CAMPUS</i></p> <p>05-10-2019</p> <p>This awareness activity mainly focused on cleanliness in the girl's washroom sanitation, aiming to initiate more responsibility from the students by interacting with them. The students stuck posters around the campus, including canteen, the café coffee day and girls washroom.</p>	 <p align="center">Sticking posters around the campus.</p>

<ol style="list-style-type: none"> 1. Flynna Andrade 2. Abigail Sacrafamilia 3. Muriel Fernandes 4. Caren Noronha 	<p>ORGANIC COMPOSTING AND BIOGAS</p> <p>03-10-2019</p> <p>Awareness on different composting techniques such as direct composting, vermicomposting, composting and farm yard manure were explained to our college students with the help of posters. The students encouraged the use of vermicomposting and also gave a brief introduction on biogas and its benefits.</p>	
<ol style="list-style-type: none"> 1. Zuha Fatima Bi 2. Megan D'mello 3. Twinkle Carvalho 4. Mercy Travassos 	<p>HAZARDS AND NEED FOR PROPER MANAGEMENT OF RADIOACTIVE AND E-WASTE</p> <p>04-10-2019 05-10-2019</p> <p>To promote awareness about hazards and need for proper management of radioactive and E-Waste, the students used posters and explained about the various sources and methods of disposing radioactive and electronic wastes. They also visited various stationary shops as they utilize electronic equipment such as Xerox and printers and explained the different methods of disposal of e-wastes.</p>	
<ol style="list-style-type: none"> 1. Sweenie Souza 2. Prisfa Noronha 3. Vevina Oliveira 4. Rochelle Fernandes 	<p>AWARENESS ON SEWAGE DISPOSAL AND MEDICAL WASTE MANAGEMENT.</p> <p>12-10-2019</p> <p>The students used posters to create awareness on Sewage disposal and medical waste management. Different methods of waste segregation were explained to the college students. They also informed as to how waste can be segregated at home, as proper segregation is the best way to manage waste.</p>	
<ol style="list-style-type: none"> 1. Renisha Fernandes 2. Eleanor Faleiro 3. Shanaya Mascarenhas 4. Jessica Furtado 	<p>AWARENESS ON IMPORTANCE OF VERMICOMPOSTING</p> <p>27-09-2019</p> <p>The students used posters to explain the importance of vermicomposting. The aim was to educate students on the process and techniques of vermicomposting. They encouraged other students to practice it, as vermicomposting not only helps in eliminating waste but also produces compost that can be used as an organic fertilizer.</p>	

<p>1. Shobell Fernandes 2. Kiran Shet 3. JainabMuzawar 4. Anisha Kadam</p>	<p>AWARENESS ON REDUCING THE USE OF PLASTIC AND ILL EFFECTS OF GARBAGE DUMPING</p> <p>18-10-2019</p> <p>Students created awareness among the local villagers of Fatrade, Varca about the different waste management techniques and how to prevent it. The main aim was to make people aware about the waste they are contributing unknowingly by extensive use of plastic and dumping waste. Students also introduced them to the technique of composting which they can use in their backyard.</p>	
<p>1. Rachell Menezes 2. Shaina Alvares 3. Reema Monteiro 4. Valerie Gracias 5. RushadNaik</p>	<p>SOURCES AND DISPOSAL OF WASTE</p> <p>14-10-2019 15-10-2019</p> <p>Students created awareness on the different sources of waste and how one can segregate and dispose the waste safely without harming the environment. The students used posters to create the awareness in the college campus as well as in their locality. The first part of the program was an awareness program done in the society with the help of the poster various sources of waste were explained like e-waste, domestic waste, medical waste, etc. The second part was an awareness program done in college with the help of posters they explained the sources of waste, different techniques of segregation and methods of disposal.</p>	
<p>1. All students of SEC</p>	<p>LABELING WASTE-BINS FOR ENABLE SEGREGATION OF WASTE</p> <p>18-10-2019</p> <p>All student of the SEC course labeled the waste-bins on the campus. The bins were labeled to enable waste segregation on the campus. The bins were labeled for segregation of food waste, plastic, tetrapacks, paper, leaf litter and metal.</p>	
<p>1. Saachi Gramopadhye</p>	<p>AWARENESS ON WASTE MANAGEMENT IN LOCAL COMMUNITIES</p> <p>19-10-2019</p> <p>The student approached the local people of Ponda and personally discussed all their queries regarding the waste management issues that they face on daily basis. She also emphasized on the segregation of not only the biodegradable and non-biodegradable waste but also the segregation of re-useable and recyclable waste among the non-biodegradable components. The main objective was to reignite the awareness amongst the locals regarding the ill aspects of improper waste management.</p>	

<ol style="list-style-type: none"> 1. Shatakshi Bhat 2. Antara Poi Raiturker 3. Ferzeen Sheikh 4. Delailah Dias 5. DivyaHosmani 	<p><i>METHODS OF WASTE TREATMENT AND IMPORTANCE OF PRACTICING WASTE SEGREGATION AND MANAGEMENT</i></p> <p>11-09-2019 12-09-2019</p> <p>The students created awareness among the college students regarding the different methods of waste treatment, the 3Rs and the importance of practicing waste segregation and waste management using posters. The students prepared a feedback form to know if the explanation with the enriched their knowledge regarding the waste management techniques. They also stuck labels on energy and water conservation on campus.</p>	
<ol style="list-style-type: none"> 1. ManjulaBhajantri 2. Roshani KM 3. Priyanka Travasso 4. Zeenia Gracias 5. Shania Da cruz Fernandes 	<p><i>AWARENESS ONTECHNIQUES OF WASTE DISPOSAL</i></p> <p>The community outreach activity was carried out in order to create awareness on Waste Management techniques. Garbage disposal is a major issue and is having a hazardous effect on the environment. In view of this, the students decided to create awareness among the locals.</p> <p>The students visited various fruit and vegetable vendors around the College and had a one to one conversation with the vendors and explained them about the different methods of waste disposal. They also emphasized on the importance of waste segregation into biodegradable and non-biodegradable.</p>	
<ol style="list-style-type: none"> 1. Andrea Rodrigues 2. BerdinaPires 3. IshaDessai 4. LakshadaKalekar 5. Roseanna Pimenta 	<p><i>AWARENESS ON WASTE MANAGEMENT</i></p> <p>In order to create awareness on waste management, the students approached the local people of Arlem. They discussed all the queries of local villagers regarding the waste management issues that they face on daily basis. With the help of posters they explained them the hazardous effects of non-biodegradable wastes on the environment. The students also encouraged the use of small scale vermicomposting and the importance of re-use and recycle ofwastes among the non-biodegradable components.</p>	
<ol style="list-style-type: none"> 1. Vedika phal 2. Ashney Rodrigues 3. ManjunathaGadiyar 4. Nakul Divekar 5. Amanda Vaz 6. ApoorvKhandeparkar 	<p><i>AWARENESS ON IMPORTANCE OF VERMICOMPOSTING</i></p> <p>The students created awareness on the importance of vermicomposting as a modern alternative to wet waste management practices. They explained the local villagers and other students onthe vermicomposting procedure and techniques. The main aim was to explore the possibility of using communal bins as a different way of segregation and disposal of wet waste. The students also gave them information on how to procure equipment's and earthworms to carry out vermicomposting. The local villagers were quite enthusiastic in learning this</p>	

	<p>technique as this also helps them in generating income by selling the compost.</p>	
<ol style="list-style-type: none"> 1. ShreesiddhiBhokar 2. SaishreeKamat 3. KaushikiKamat 4. BhargaviGaonkar 5. MrugnayniRaikar 	<p>AWARENESS TO IMPROVE SOIL STRUCTURE</p> <p>The students created awareness amongst the locals on the different techniques that improves soil structure and its maintenance. They explained various techniques such as regularly adding compost, encouraging biological activity in soil, maintaining necessary pH and ensure proper aeration. The same was explained to our college students with the help of posters. The students also encouraged the use of these techniques in their backyard to improve the soil structure.</p>	
<ol style="list-style-type: none"> 1. PranjalKalekar 2. AishwaryaThorat 3. PrajayChodnekar 4. DevikaArsekar 5. Ansley Rodrigues 	<p>SOURCES AND IMPORTANCE OF WASTE SEGREGATION</p> <p>The students created awareness on the sources of waste and the importance of segregation with the help of posters. They explained the various sources of waste like domestic waste, E waste and medical waste and the methods of waste management. The students also informed about the adverse effects caused on the environment and human health by the waste generated. They emphasized on the practice of waste segregation as an effective way of waste management.</p>	
<ol style="list-style-type: none"> 1. ShubhamRivonker 2. PrasheelUsapkar 3. NavdetyaKalangutkar 4. OmkarNaik 5. Ansley Rodrigues 	<p>AWARENESS ON PROPER MANAGEMENT OF RADIOACTIVE AND E-WASTE</p> <p>The students used posters in order to create awareness on the management of radioactive and E-waste. They explained the college students about the various sources of radioactive and E-waste. Students were also informed about the techniques of proper management of radioactive and E-waste. They emphasized on the hazardous effect on the environment and suggested methods of disposing the E-waste generated by the students.</p>	
<ol style="list-style-type: none"> 1. Dwana Martins 2. ReanneGonsalves 3. SaviaCoutinho 4. KashmiChodnekar 5. Swaraj Gaunkar 	<p>IMPORTANCE OF VERICOMPOSTING</p> <p>To promote awareness on the importance of vermicomposting, the students used posters to explain the various steps involved in the vermicomposting procedure. The students used posters to create the awareness in the college campus as well as in their locality. The main aim of this activity was to encourage the use of small scale vermicomposting among locals and college students to prepare compost at home. They encouraged other students to practice it in their house, as vermicomposting not only helps in eliminating kitchen waste but also produces organic manure that can be used as a natural fertilizer in their garden.</p>	

<ol style="list-style-type: none"> 1. Swetha Pereira 2. TejasviNaik 3. Flavia Monteiro 4. Joval Vaz 5. Harshada Chari 	<p style="text-align: center;"><i>AWARENESS ON IMPORTANCE OF ORGANIC COMPOSTING</i></p> <p>The students created awareness among the local grocery vendors on the importance of organic composting. They used posters to explain the concept of organic composting and how it can be effectively used to prepare compost of the kitchen waste generated. The students also informed about the conditions required for the compost preparation and encouraged the use of organic composting as an ideal way of managing kitchen waste.</p>	
<ol style="list-style-type: none"> 1. Rahul Rane 2. Amberless Fernandes 3. Saima Khan 4. Amreen Fathima 5. Manita Ganachari 	<p style="text-align: center;"><i>METHODS OF WASTE TREATMENT AND DISPOSAL</i></p> <p>To promote awareness among the college students regarding the various methods of waste treatment and disposal, the students used posters to explain the different techniques followed in India for waste treatment and disposal. The students also emphasized on the adverse effects caused due the lack of waste treatments methods on our environment.</p>	

HOD-ZOOLOGY



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REPORT OF “MEDICINAL PLANT EXHIBITION CUM SALE”

Title: Medicinal Plant Exhibition cum Lecture series

Date and year: 28 January 2019

Venue: Lower Auditorium

Resource person/s: Dr. Pradip Sarmokadam, Member Secretary, Goa State Biodiversity Board, Saligao- Goa.

Organising Committee: Mrs. Amisha Pednekar and Mrs. Divyarani Revankar

No. of Participants: Open to all

Objective:

1. To bring awareness about the various medicinal plants amongst students and general public.
2. To make available authentic medicinal plants.
3. To expose the school and higher secondary students to the importance of medicinal plants.
4. To enlighten the students about our ethanobotic wealth.

Summary of the proceedings: As a social responsibility, Department of Botany of Parvatibai Chowgule College of Arts and Science (Autonomous), Gogol, Goa in collaboration with Goa State Medicinal Plants Board, Goa Forest Department, Forest Complex, Aquem, Margao- Goa organized one day Medicinal Plants Exhibition cum Lecture series on 28th January 2019 from 10:00 AM to 3:00 PM. This event was sponsored under Department of Biotechnology (DBT) Star College Scheme. Also, there was a separate counter for the sale of medicinal plants. This event was open for students, faculty, schools, higher secondary schools from Margao and other public. He very well explained how plants play an important role in maintaining health of the environment and human body. This lecture enlightened the participants on how plants can be the best physician in today's world.



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REPORT OF 'WORLD MANGROVE DAY' CELEBRATION -
26TH JULY 2019

Title:	World Mangrove Day Celebration
Date and year:	26 th July 2019
Venue:	Inaugural Lecture Series: } Auditorium Film Show: Poster Competition: Painting Competition: } A202 and Quad Photography Competition:
Resource person/s:	Lecture Series: 1) Dr. Nandkumar Sawant 2) Dr. Nandini Vaz Fernandes
Organising Committee	1. Dr. Nandkumar Sawant (Chairman DBT Star College Scheme) 2. Dr. Nandini Vaz Fernandes (HOD, Zoology & College coordinator DBT Star College Scheme, MSI member) 3. Ms. Madhu Balekai (MSI member) 4. Ms. Tessa Vaz (MSI member) 5. Mr. Stephen Dias (MSI member) 6. Ms. Gautami Manakikar (MSI member) 7. Mr. Vrushab Mhapsekar 8. Ms. Amisha Pednekar (Botany Coordinator, DBT Star College Scheme, MSI member) 9. Dr. Sanjay Gaikwad (Geography Coordinator, DBT Star College Scheme, MSI member)
No. of Participants	157
Objective:	To sensitize students towards Mangroves and make them ambassadors of mangrove conservation.
Summary of the proceedings	<p>The department of Zoology, along with department of Geography and Botany of Parvatibai Chowgule College, in association with Mangrove Society of India, celebrated 'World Mangrove day' on Friday 26th July 2019.</p> <p>The programme was organised under DBT Star College Scheme. The Mangrove day Celebration, was planned to sensitise students of different age groups on various aspects of Mangroves viz. its biodiversity, its importance, consequences of its destruction and need for conservation of mangroves.</p> <p>The Programme started with registration at 9.00am and ended with Prize distribution ceremony by 2.00 pm</p> <p>1) Inaugural Session (At the Auditorium): Ms. Tessa Vaz, member of the organising committee, welcomed the participant and informed about</p>

the rationale of conducting the programme. Dr. Nandini Vaz Fernandes, welcomed the Chief Guest of the function, Dr. Nandkumar Sawant, Principal of Parvatibai Chowgule College and briefed the participants about the series of events planned for celebrating Mangrove day.

2) **Lecture Series:**

Lecture 1: The Chief guest Dr. Nandkumar Sawant gave a Lecture on “*Mangroves of Goa in Troubled Water – Mitigation Strategies*’. He explained the geographical distribution and impact of mangroves in preventing natural calamities viz. cyclones, storms and soil erosions. He also gave a GIS image overview of localisation and density of Mangroves in Goa, and discussed his research studies on destruction of Mangrove cover on account of anthropogenic activities. He urged the youngsters to be conscious of one’s duty to conserve these beautiful habitats for the sake of mankind.

Lecture2: Dr. Nandini Vaz Fernandes spoke on ‘*Life Sans Mangroves*’, where she discussed the uniqueness of mangrove ecosystem highlighting the adaptations seen in the flora and fauna of mangrove ecosystem. She discussed the social, economic and environmental importance of the mangroves, and explained how mangroves act as protectors of coastal belts from natural calamities as well as act as carbon sinks. She told the young school participants to be ambassadors of spreading word on importance of mangroves and working towards its conservation.

3) **Film Show:** Three short films were screened for all the participants. Two animation films on ‘Importance of mangroves’ and ‘Role of Mangrove Ecosystem’ were featured. The third film featured the unique fauna of mangrove ecosystem in Sunderbans.

4) **Poster Competition:** Poster competition was held for School children of Class VIII, IX and X. The Theme of the competition was ‘Importance of mangroves. 27 students from Six schools participated in the poster competition. Every team had to give ‘Slogan’ on mangrove conservation.

First place: Vismay Kalekar and Shruti Nayak (Bhatikar Model High School).

Second place: Shared by Astha Kakalkar and Angelica (Kings School) ; Jahir Khan and Priyanka Modje(Rosary High School)

Third place: Mahima Carvalho and Emelia annet Furtado (Presentation Convent high School)

5) **Painting Competition:** Painting competition on the theme ‘Mangrove Ecosystem’ was held for the students of Chowgule College.

First place: Twinkle Carvalho

Second place: Asmita Chari

Third place: Muskaan Phattygouder

6) **Photography Competition:** For the students of Botany, Geography and Zoology, photography competition was organised on the theme ‘Mangrove Flora and Fauna’.

Winners:

First place: Ms. Ceejal Pinto.

Second place: Ms. Melita Pereira

Third place: Ms. Renvill Luis

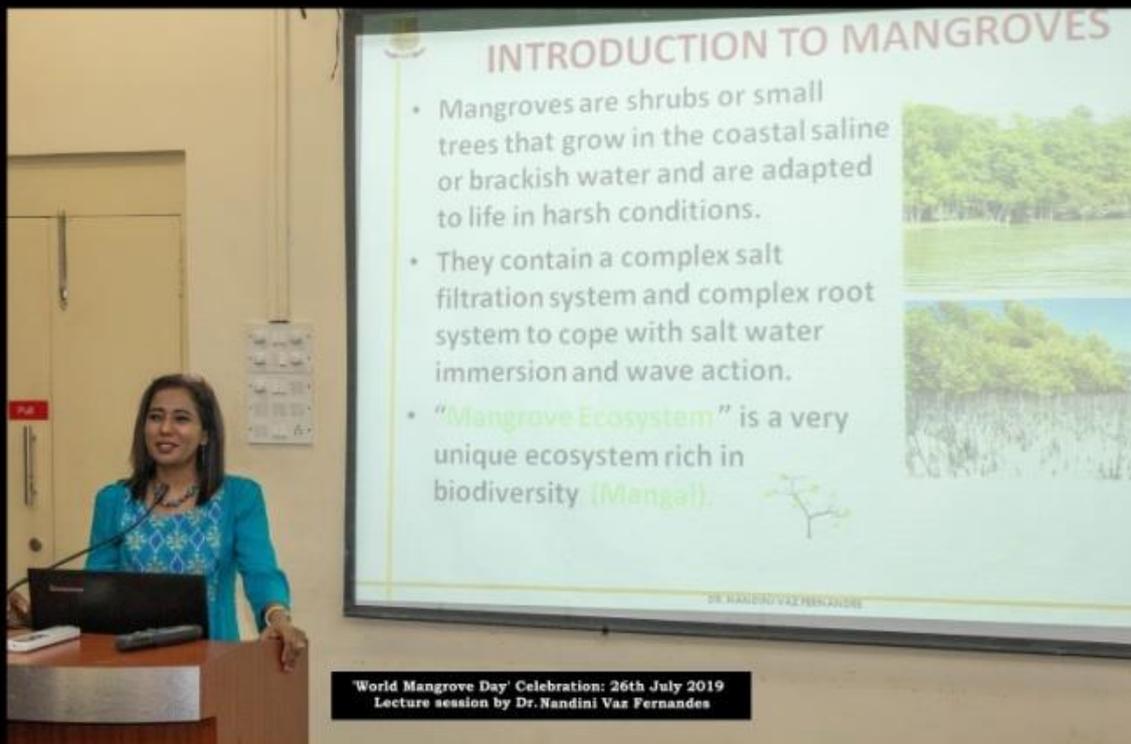
All the posters, Paintings and Photographs were exhibited in the College Quad. The winners were felicitated during the valedictory function at the

hands of Principal Dr. Nandkumar Sawant, Vice –Principal Prof. Harish Nadkarni and Head of the department of Zoology Dr. Nandini Vaz Fernandes.

Photographs



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World Mangrove Day' Celebration: 26th July 2019
Poster Competition on 'Importance of Mangroves



World Mangrove Day' Celebration: 26th July 2019
Poster Competition on 'Importance of Mangroves



'World Mangrove Day' Celebration: 26th July 2019
Poster Competition on 'Importance of Mangroves'



'World Mangrove Day' Celebration: 26th July 2019
Poster Competition on 'Importance of Mangroves'



World Mangrove Day' Celebration: 26th July 2019
Inaugural Session



World Mangrove Day' Celebration: 26th July 2019
Valedictory function



**World Mangrove day Celebration-26th July 2019
Poster Competition; Theme "Importance of mangroces"
First place: Vismay Kalekar and Shruti Nayak (Bhatikar Model High School).**



**World Mangrove Day Celebration: 26th July 2019
Poster Competition: Theme 'Importance of mangroves'
Second Place: Jahir Khan and Priyanka Modje(Rosary High School)**



**World Mangrove Day Celebration: 26th July 2019
Poster Competition: Theme 'Importance of mangroves'
Second Place: Astha Kakalkar and Angelica (Kings School)**



**World mangrove Day celebration; 26th July 2019
Poster Competition: Theme 'Importance of mangroves'
Third Place: Mahima Carvalho and Emelia annet Furtado (Presentation Convent High School)**



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Report on “Kitchen Gardening Workshop “

Title: Kitchen Gardening Workshop

Date and year: 11.12.2019 and 12.12.2019

Venue:Parvatibai Chowgule College of Arts and Science

Resource person/s:

1. Dr.Thangam, Principal Scientist (Vegetable Science), ICAR
2. Ms. Maneesha S.R., Scientist (Fruit Science), ICAR
3. Mr. ViplavPrabhugaonkar, Entrepreneur, GHK Sprouting Dreams
4. Ms. Bhagyashree Shaikh, Co-founder of EASE ECO Goa
5. Ms. Richa Dessai, Block Technology Manager, Department of Agriculture, Government of Goa

Organising Committee: Department of Botany

No. of Participants: 74

Objective:

1. To motivate and train passionate gardeners and young minds about kitchen gardening.
2. To create awareness about organically grown kitchen gardens.
3. To create awareness about new concepts like urban farming.

Summary of the proceedings:

Session 1 was delivered by Dr.Thangam on “Vegetable Cultivation”. Different vegetables grown in Goa and their effective methods of cultivation were discussed.

Session 2 was a lecture on “Urban Farming: A Holistic Approach” by Maneesha S.R., Scientist, ICAR. The importance of urban farming, its types, benefits, components and challenges were highlighted.

Session 3 was post lunch, a light hearted session by Mr. ViplavPrabhugaonkar, an entrepreneur, on “Ideal pot mix using home compost and significance of Kitchen Gardening”. Mr. Prabhugaonkar demonstrated how to make the right potting mixture and also answered to queries from the audience.

On day 2, session 4 was conducted by Ms. Bhagyashree Shaikh, a participant and Cofounder of EASE ECO Goa who delivered a talk on the significance of organic farming and integrated pest management. She also urged the audience to grow their own fruits and vegetables.

And the last session, session 5 was based on “Home Gardening” by Ms. Richa Dessai, Block Technology Manager, Department of Agriculture, Government of Goa. She emphasised on the consumption of local fruits and vegetables. A detailed explanation was given on how to prepare the land, cultivation of kitchen gardening plants and after care. Different schemes and subsidies from the agriculture department were outlined and the importance of Krishi card was emphasized.

The members on the dais for the Valedictory function were Ms. Richa Dessai, Block Technology Manager, Department of Agriculture, Government of Goa, Mr. Harish Nadkarni, Vice Principal, Parvatibai Chowgule College, and Ms. AmishaPednekar, Department incharge. A feedback of the workshop was taken from the participants and the certificates were distributed by Ms. Richa Dessai and Mr. Harish Nadkarni.



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REPORT OF ' MEDICINAL PLANT EXHIBITION '	
Title:	Medicinal Plants Exhibition cum guest lecture
Date and year:	28 th January 2020
Venue:	Guest lecture: Upper Auditorium Medicinal Plant Exhibition: Quad, A Block Plant Sale Counter: near butterfly garden
Resource person/s:	Dr.Satyavan Naik, Principal and Professor, Shri Kamaxidevi Homeopathic Medical College, Shiroda- Goa.
Organising Committee	Ms. Divyarani Revankar Department of Botany in association with the Goa State Medicinal Plants Board , funded by DBT Star College Scheme
No. of Participants	Open to all >100 participants
Objective:	<ol style="list-style-type: none">1. To bring awareness about the various medicinal plants2. To expose the school and higher secondary students and college to the importance of medicinal plants and homeopathy.
Summary of the proceedings	<p>This event was organized in association of the Goa state medicinal plants board, Forest Complex, Aquem- Goa and funded under the DBT Star College Scheme. The event started with inaugural function at 10:00 AM. Dr.Satyavan Naik, Dr. Nandini Vaz Fernandes, Ms. Amisha Pednekar and Ms. Divyarani Revankar were the dignitaries on the dais.</p> <p>This exhibition was open for all. School, higher secondary schools, colleges from around Margao were invited. Also the exhibition was open for general public.</p> <p>The guest lecture was delivered by Dr.Satyavan D. Naik, Principal and Professor, Shree Kamaxidevi Homeopathic Medical College, Shiroda- Goa. The topic of his talk was 'Importance of medicinal plants in Homeopathy'. He gave an excellent lecture on the topic.</p>

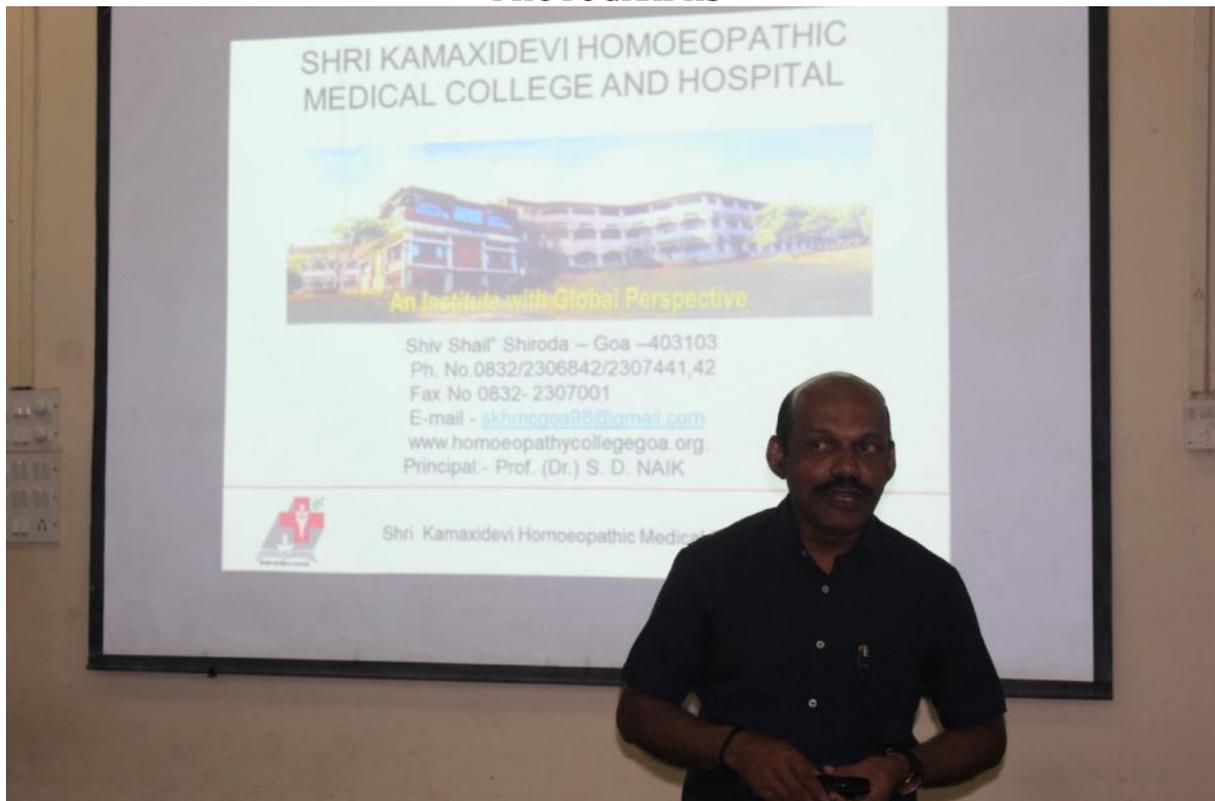
The participants interacted with the speaker of the day and it was truly worthy.

The feedback of the exhibition is taken from the visitors. It is maintained with the department office. 4 Students along with one faculty member attended this exhibition from Schools like, Vidya vikas academy, Presentation Convent, ST. Josephs High School, Bhatiker Model High School, Mount Mary Higher Secondary schools, in house faculty and staff , students and general public also visited the exhibition.

35 medicinal plants were displayed by the Goa Medicinal plants board. The students from Botany department explained each plant medicinal value and its uses. The main objective of this event was to create awareness on medicinal value of plants. The Forest Department also provided medicinal plants to be kept for sale at the Plant Sale counter.

Time: 10:00 AM to 3:00 PM

PHOTOGRAPHS



Dr.S. D. Naik delivering his talk in the Upper Auditorium



Medicinal plants exhibit at the Quad, A Block



Students volunteers interacting with the school students and teacher.



Student volunteer interacting with school students.



Plant sale counter near butterfly garden



Plant sale counter





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Report on "Creating Paper bag to reduce plastic"	
Title:	Creating Paper bag to reduce plastic
Date and year:	
Venue:	Respective Homes of Students
Resource person/s:	Students and Faculty Dr. Sachin Savio Moraes
No. of Participants	41
Objective:	Reduction of the Use of Plastic
Summary of the proceedings	The Human Club of the department undertook the paper bag project. The project ran for the period between 1st September till 5th December 2019. During this period a total of 30 students created 14, 500 paper bags to be distributed in the Margao-Market, amongst the 30 students, three students created total of 300 cloth bags. The aim of this project was to reduce the use of plastic and use alternatives that are eco-friendly. The project was lead by Dr. Sachin Savio Moraes.
Photographs	



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REPORT OF INDUSTRY-ACADEMIA LECTURE SERIES	
Title:	INDUSTRY-ACADEMIA LECTURE SERIES OF CHOWGULE'S BIRDERS CLUB (CBC)
Date and year:	09 th August 2019
Venue:	Upper Auditorium
Resource person:	Dr. N Palanikanth, Mr. AnandJadhav
No. of Participants	120
Objective:	To acquaint students with birding and its importance in the Western Ghats.
Summary of the proceedings	<p>CBC organized Industry-Academia Lecture Series in Collaboration with Goa Forest Department, on 09th August 2019. The event was attended by 157 students and teachers. The speakers of the event were Dr. N Palanikanth, Deputy Conservator of Forest (DCF) and Mr. AnandJadhav, Assistant Conservator of Forest (ACF) of Forest Department, Government of Goa. Dr. N Palanikanth, explained the importance of bird watching in his session 'Birding in Western Ghats', where he explained the association of birds and their habitat, and how adopting bird watching can positively influence a person's mind. He added that watching birds and their habits is a great way of learning to live life of adjustment and harmony. Mr. AnandJadhav, spoke on 'Birds & Bird watching in Goa'. Chief Guest of the function was Principal, Dr. Nandkumar Sawant. He spoke on the need to have such industry-academia interactions which give students opportunity to directly interact with experts on the field of wildlife.</p>
Photographs:	



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REPORT OF WILDLIFE WEEK CELEBRATION

Title:	QUIZ COMPETITION
Date and year:	05 th October 2019
Venue:	Lower Auditorium
No. of Participants	70
Objective:	To assess and enhance student's knowledge on wildlife and environment.
Summary of the proceedings	The Department of Zoology in collaboration with the Goa Forest Department hosted the Wildlife Quiz Competition for the college students as a part of the '68 th Wildlife Week Celebration 2019'. A total of 6 colleges participated in the competition. The quiz competition mainly assessed the student's knowledge on wildlife and environment through different rounds like wildlife questions, photo guessing and rapid fire round. Ms. Neeha Borkar and Mr. Abhiraj Sinh from Parvatibai Chowgule College of Arts and Science won the first place for the quiz competition.

Photographs:





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REPORT OF 3rd BIRD FESTIVAL OF GOA

Title:	3 rd BIRD FESTIVAL OF GOA
Date and year:	17 th -19 th January 2020
Venue:	Valpoi
Resource person:	Mr. Bikram Grewal, Mr. Vivek Menon, Mr. GobindBharadwaj, Mr. RamkiSreenivasan, Mr. Parag Rangnekar and Mr. OmkarDharwadkar
No. of Participants	08
Objective:	To create awareness among public, school and college students regarding the importance of conserving birds and its habitats.
Summary of the proceedings	The 3rd Bird Festival of Goa was organized by the Goa Forest Department from the 17th-19th January 2020 at Valpoi, Sattari. Ms. GautamiManakikar along with seven students attended the Bird Festival. The main aim of the bird festival was to create awareness among public, school and college students regarding the importance of conserving birds and its habitats. A total of five bird walks were organized in Valpoi Forest Reserve, BhagwanMahavir Wildlife Sanctuary and Mhadei Wildlife Sanctuary. The Bird Festival included various Lecture series by eminent speakers like Mr. Bikram Grewal, Mr. Vivek Menon, Mr. GobindBharadwaj, Mr. RamkiSreenivasan, Mr. Parag Rangnekar and Mr. OmkarDharwadkar. The Bird Festival also included a workshop on Paper Quilling by Mrs. Vedwati Padwal and a workshop on Origami by Mr. SumedhWaghmare.

Photographs:





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REPORT OF BIRDWALK OF CHOWGULE'S BIRDER CLUB	
Title:	BIRDWALK OF CBC
Date and year:	24 th August 2019
Venue:	Maina-Curtorim
No. of Participants	17
Objective:	To expose students to various field equipment used in bird watching.
Summary of the proceedings	<p>The Chowgule's Birder Club (CBC) organized its first bird walk for academic year 2019-2020 on 24th August 2019 at the Maina-Curtorim Wetland Complex. A total of 17 student participants were accompanied by two faculty members (Mr. Stephen Jonah Dias; Dr. Nandini Vaz Fernandes), who explained about birding and bird spotting during the walk. The Maina-Curtorim-Wetland Complex is a bio-diversity rich eco-region nestled in-between human habitation. Primary habitat types that can be found in this complex are Manmade irrigation tank, paddy cultivation land, mangroves and woodland habitats. An upward of 150 species of birds has been recorded in this area. A total of 38 species of birds were recorded in the area during the birdwalk.</p>
Photographs:	

**PARVATIBAI CHOWGULE COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS) - GOGOL, MARGAO-GOA**

INTERDISCIPLINARY ACTIVITY – DBT STAR COLLEGE SCHEME

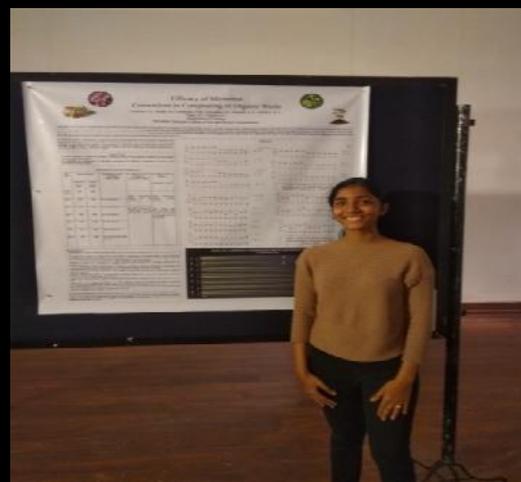
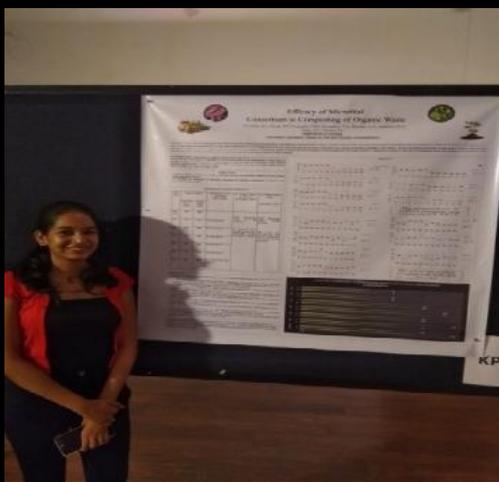
REPORT OF ORGANIC COMPOSTING PROJECT

Title:	Project: Organic Composting
Date and year:	2019-2020
Venue:	College Campus - Parvatibai Chowgule College
Proposed by	1) Dr. Nandkumar Sawant 2) Dr. Nandini Vaz Fernandes
Coordinated and executed By	Dr. Nandini Vaz Fernandes
No. of Beneficiaries	10 Students
Objective:	1) To encourage research aptitude and enhance research skills in students and give them opportunities to plan and execute research works and present their findings. 2) To find amicable solution to degrade organic waste through composting.
Summary of the proceedings	<p>As per the proposal received, 10 students were given the opportunity to carry out research on “Efficacy of Microbial consortium on composting of organic waste”</p> <p>The students worked with different microorganisms to develop a microbial consortium which degrades mixed kitchen waste at a faster rate.</p> <p>During the year long project, the student learnt the method of designing a scientific study, understanding research steps, method of data tabulation and interpretation and knowing the intricacies of scientific research.</p>

Outcome/Success of Research work:

- 1) The Research work was selected as the 13 **best research works** to be presented as a poster by **Directorate of Higher Education, Govt. of Goa**, from research works amongst all research projects done by students in Colleges of Goa. The students put up their research paper and work display at 'KALPAK' exhibition on national Science day organised by Govt. of Goa. Ms. Valanca Fernandes and Ms Elrica Coutinho presented the research work.
- 2) The work was also presented at the "**Research Presentation Competition**" held on 25th February 2020 organized by the Parvatibai Chowgule College under DBT Star College Scheme. Criteria of evaluation were 'Scientific approach' in conducting and representing research. The Project bagged the **First Place** in the Life Science Section.

Photographs



Valanca Fernandes (left) and Elrica Coutinho (right), students of the Department of Zoology, Parvatibai Chowgule College of Arts and Science.

**REPORT BY
DR.NANDINI VAZ FERNANDES**

**PARVATIBAI CHOWGULE COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS) - GOGOL, MARGAO-GOA
DEPARTMENT OF BOTANY**

(Highlight the appropriate: Workshop/ Conference/Seminar/ Industry-Academia /Extension activity)

(Highlight the appropriate for Community outreach: Social service in terms of impact and sensitizing students to social issues of gender/hygiene/ nutrition/ domestic violence /environment/ community assistance etc)

<u>REPORT OF ' Awareness on 'No Single Use Plastic'</u>	
Title:	Awareness on 'No Single Use Plastic'
Date and year:	13 July 2019
Venue:	Lower Auditorium
Resource person/s:	Mr. Vignhesh Shinde
Organising Committee	Miss Eldrika Freda D'Costa and Mrs. Divyaranani Revankar
No. of Participants	50
Objective:	<ol style="list-style-type: none"> 1. To enlighten students to reduce the use of plastic especially single use plastic. 2. To spread awareness among the students on how plastic is affecting the life of organisms 3. To spread awareness on the extinction of species.
Summary of the proceedings	Mr. Shinde, emphasized on how we need to reduce the use of plastic especially single use plastic. He also made a mention of the various organisms that have gone extinct due to various anthropogenic activities and stressed on the negative effect of plastic on the organism especially birds and marine life and that reducing the use of plastic is the need of the hour. He said that as students of life science, our students need to create awareness about the same.

Photos



**Dean of Life Sciences offering token of
Appreciation to the Guest Speaker**



Mr. Shinde interacting with the audience



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Report on “SwachhtaPakhwada: Swachhta pledge”

The N.S.S. unit of Parvatibai Chowgule college of Arts and Science, Autonomous, Margao Goa, observed the ‘SwachhtaPakhwada’ in January 2020 by organizing Swachhta pledge activity. Swachhta pledge was taken on 16th January 2020, in the lower auditorium of the college. 35 students (Female: 31 and Male: 04) were present. All the NSS Program Officers were involved in organizing this activity.





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Report on “Campus Beautification”

NSS unit of Parvatibai Chowgule college of Arts and Science, Autonomous carried out cleaning on 13th September 2019 in the college campus in two wheeler parking area.





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Report on “Tree Plantation”

The N.S.S. unit of Parvatibai Chowgule college of Arts and Science, Autonomous, Margao Goa, held a tree plantation activity in the college campus. 25 NSS volunteers took part in this activity. All the NSS Program Officers were involved in organizing this activity.



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**Report on World Environment Day: 'Poster making event' on the theme
"Time for Nature"**

NSS unit of Parvatibai Chowgule College of Arts and Science, Autonomous organised Poster making event for NSS volunteers on the occasion of "World Environment Day" on 5th June 2020. The main theme for the event was "Time for Nature" with sub themes being a) Environmental Awareness, b) Man-Environment relationship and c) Changing Environment and Natural disaster. Total 26 posters were received from 25 NSS volunteers (23 female and 02 male) who participated in this event.

Posters received from NSS volunteers





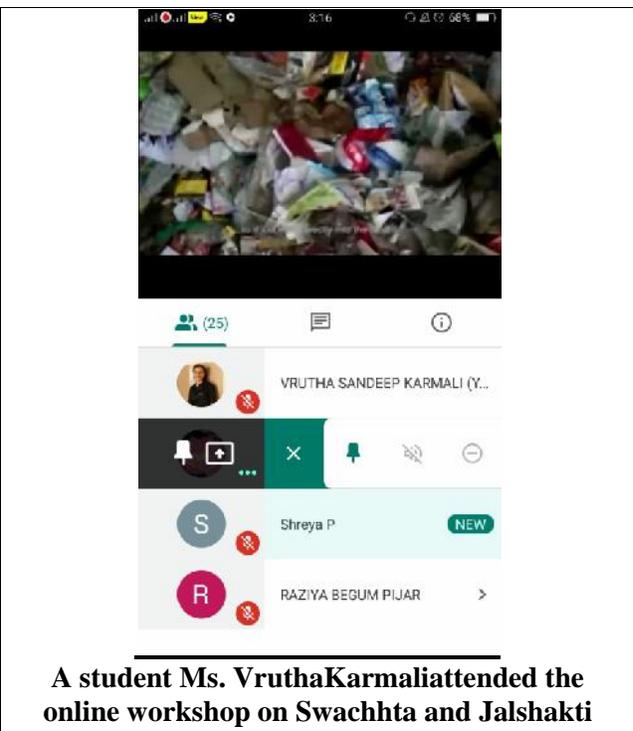
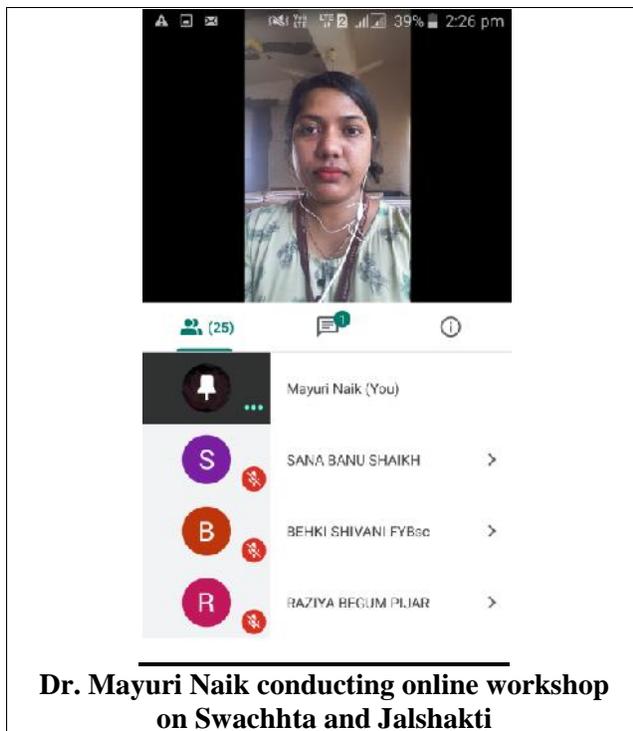
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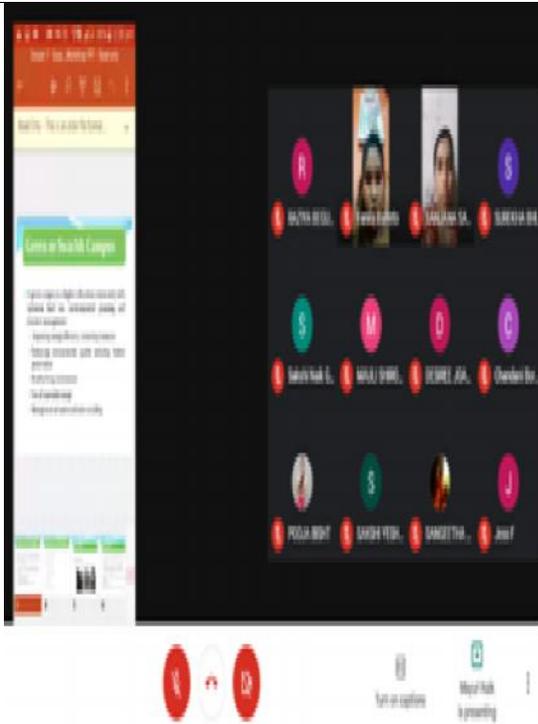
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Report on “Online Workshop on “Swachhta Action Plan” an initiative by Mahatma Gandhi National Council of Rural Education”

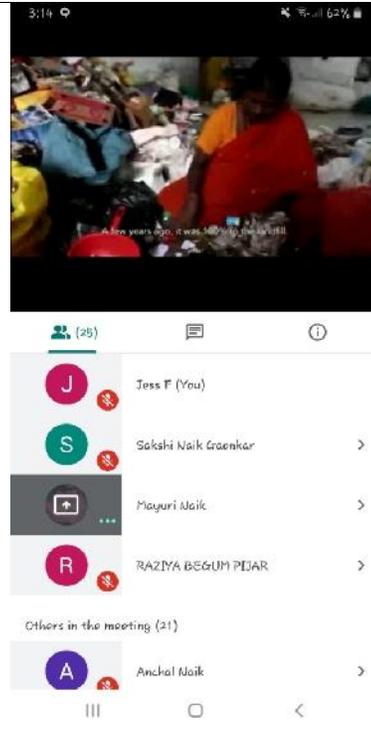
Dr. Mayuri M. Naik, NSS Programme Officer of Parvatibai Chowgule College of Arts & Science, Autonomous organized a 2 hour Online Workshop on ‘Swachhta and Jalshakti’ for the NSS volunteers. It was held on 23rd June 2020, under online workshop on “Swachhta Action Plan”, an initiative by Mahatma Gandhi National Council of Rural Education. Total 24 NSS volunteers (24 female, 0 male) participated in this online workshop.

Screenshots of Online Workshop conducted by Dr. Mayuri M. Naik





Students attended the online workshop on Swachhta and Jalshakti



A student Ms. Jessica Furtado attended the online workshop on Swachhta and Jalshakti