#### 7.1.5 Additional information on green campus initiatives

#### Activities conducted in academic year 2020 - 21

# 1. 'Sustainable Approach to Organic Farming in a Self-designed Vermicompost Integrated Aquaponics Unit'

Miss Inoska Mendes and Miss Sarah Kandhekar who completed their Bachelor's Degree Programme in the academic year 2019 - 2020 presented a paper titled 'Sustainable Approach to Organic Farming in a Self-designed Vermicompost Integrated Aquaponics Unit' (which was based on their TYBSc project) at the International Conference (Virtual) on 'Affordable Strategies for Health, Environment and Food Technology. It was organized from 22nd-23rd December, 2020 by the Department of Biotechnology Engineering, N.M.A.M. Institute of Technology, Karkala . The project was guided by Ms.Vallanka Dias, Asst Prof, Dept. of Biotechnology, who also, participated in the conference.

#### 2. Guest lecture on 'Landscaping and Garden Designing'

An online guest lecture was organised on 16<sup>th</sup> April 2021 by Ms. Amisha Pednekar and Ms. Jocelyn Makasare, Asst Professors, Dept of Botany on 'Landscaping and Garden Designing'. The guest speaker was Mr. Rozendo Mendonsa, Owner of Mr. Farmer India Pvt. Ltd. Guirim, Mapusa, Goa.

#### 3. 'Wetland Conservation' poster presentation

Ms. Abigail Sacrafamilia, student of TYBSc Zoology won the 2nd place in the National poster competition organized by ASC College, Lanja, Ratnagiri in collaboration with Mangrove society of India on 2<sup>nd</sup> February 2021. The theme of the competition was "Wetland Conservation".

#### 4. "Bird Walk

Department of Zoology coordinated the 'Bird Walk' organized by Goa Forest Department from 5<sup>th</sup> to 7<sup>th</sup> February 2021. Bird walks were conducted at two sites viz. Carambolim Lake and Curtorim-Raia Lake (Maina-Curtorim Wetland Complex). Mr. Stephen Dias, Ms. Gautami Manakikar, Ms. Prasanna Naik Gaonkar and Ms. Pratibha Tripathi conducted the bird walks for the general public on behalf of the forest department.



#### 5. 'Wildlife Management through GIS and GPS Technology'

Prof. Nandkumar Sawant (Head, Department of Geography), Dr. Nandini Vaz Fernandes (Head, Department of Zoology), Mr. Deepak Kumbhar (Assistant Professor, Department of Geography) and Mr. Stephen Dias (Assistant Professor, Department of Zoology) were invited as the Resource Persons for a workshop on 'Wildlife Management through GIS and GPS Technology' conducted for 50 forest officials by the Goa Forest Department, Government of Goa on 19th February, 2021.



Prof. Sawant stressed on the importance of applying a holistic approach in wildlife monitoring using GIS. Furthermore, he also explained the use of geospatial technologies in wildlife management using real world case studies and examples.



Dr. Nandini Fernandes discussed various conventional and advanced geospatial tools used to monitor biodiversity such as ground surveys, aerial photography, radio telemetry, infrared camera trapping, remote sensing, GIS and GPS in monitoring wildlife and gave examples of how it helps in wildlife monitoring



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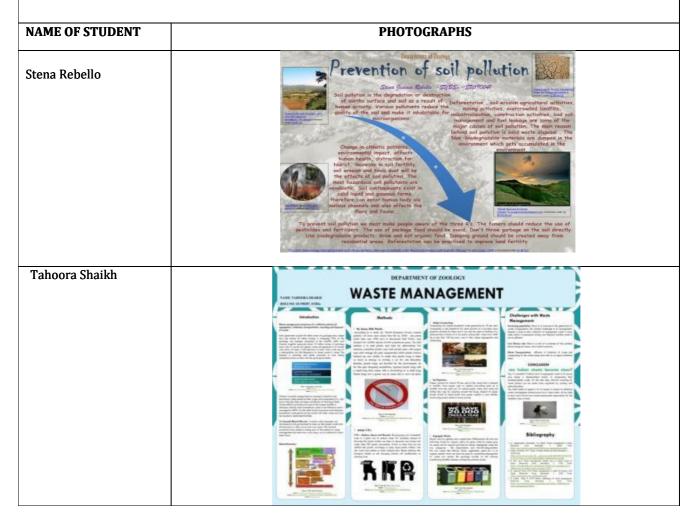
# **GREEN INITIATIVES / ENVIRONMENT PROTECTION INITIATIVES -2020-2021**

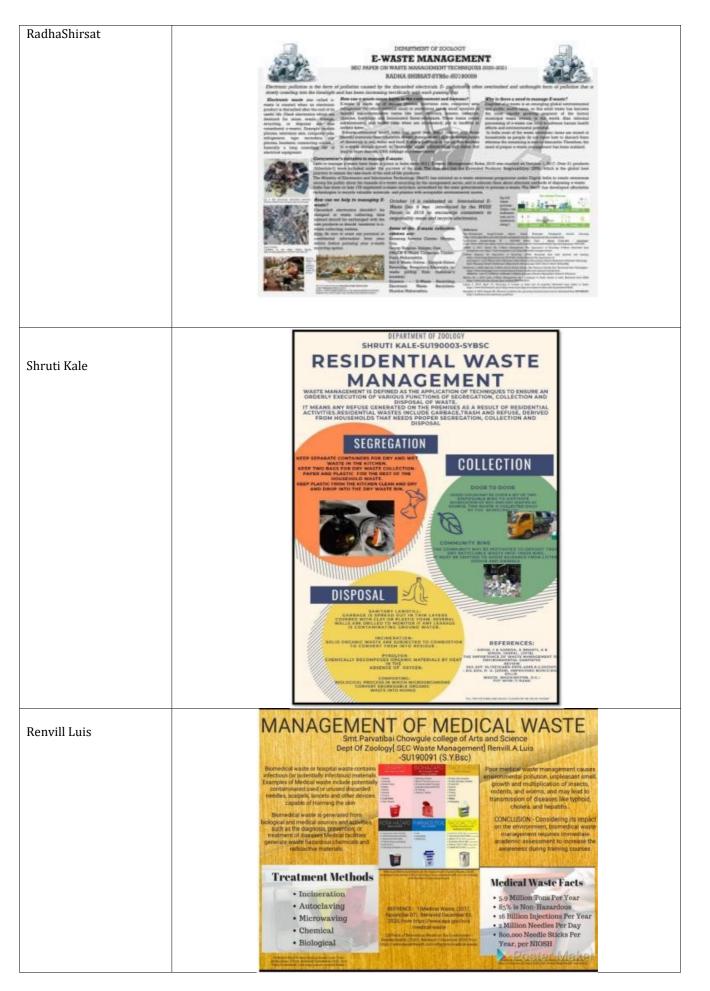
BY

**STUDENTS OF SEC COURSE ON WASTE MANAGEMENT TECHNIQUES** 

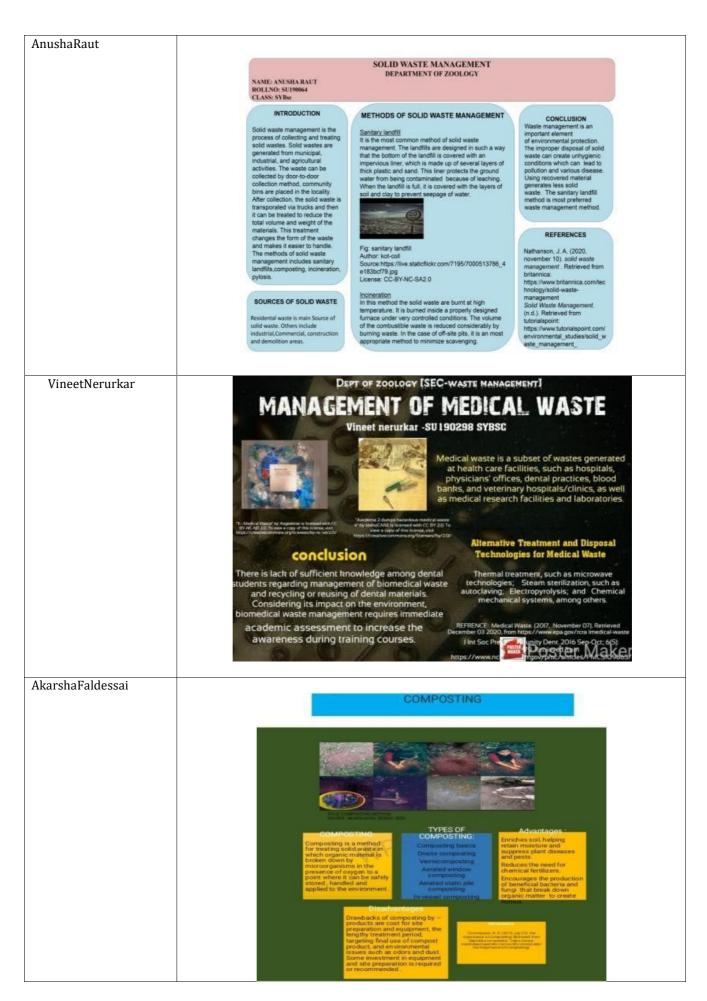
Guiding teachers: Dr. Nandini Vaz Fernandes, Ms. MadhuBalekai, Ms. Tessa Vaz & Ms. Gautami Manakikar

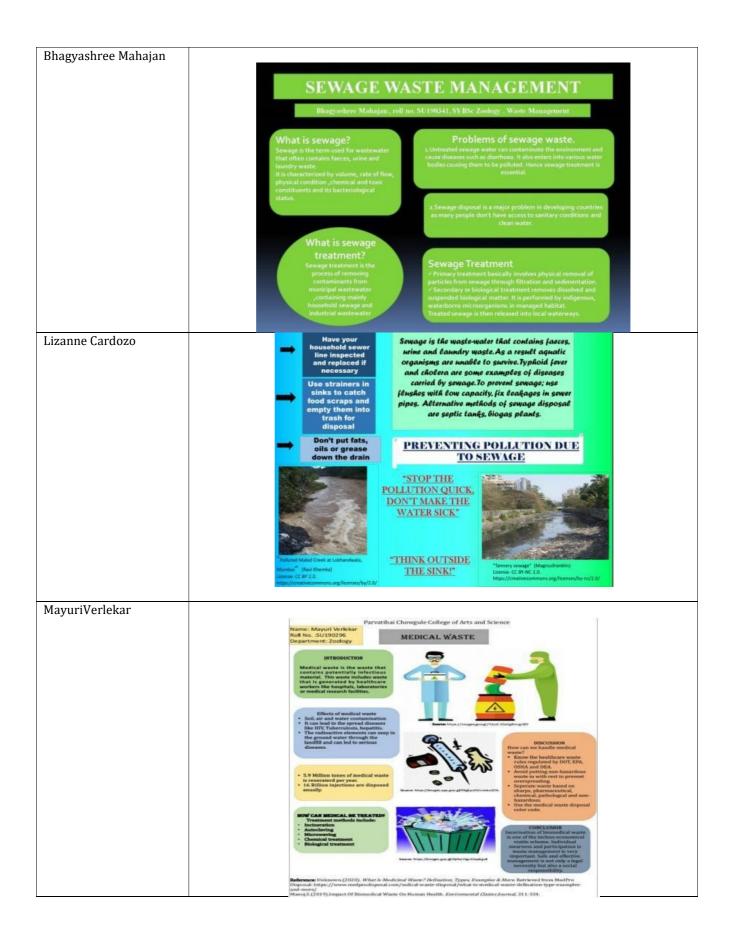
**E-POSTERS:** The SEC students designed E-posters in order to create awareness on the various Waste Management techniques. The students used posters to explain about the adverse effects caused on the environment and human health by the waste generated. They also created awareness on the different sources of waste and how one can segregate and dispose the waste safely without harming the environment. They emphasized on the hazardous effect of E-waste on the environment and suggested methods of disposing the E-waste generated. The main aim of this activity was to reignite the awareness regarding the ill aspects of improper waste management.

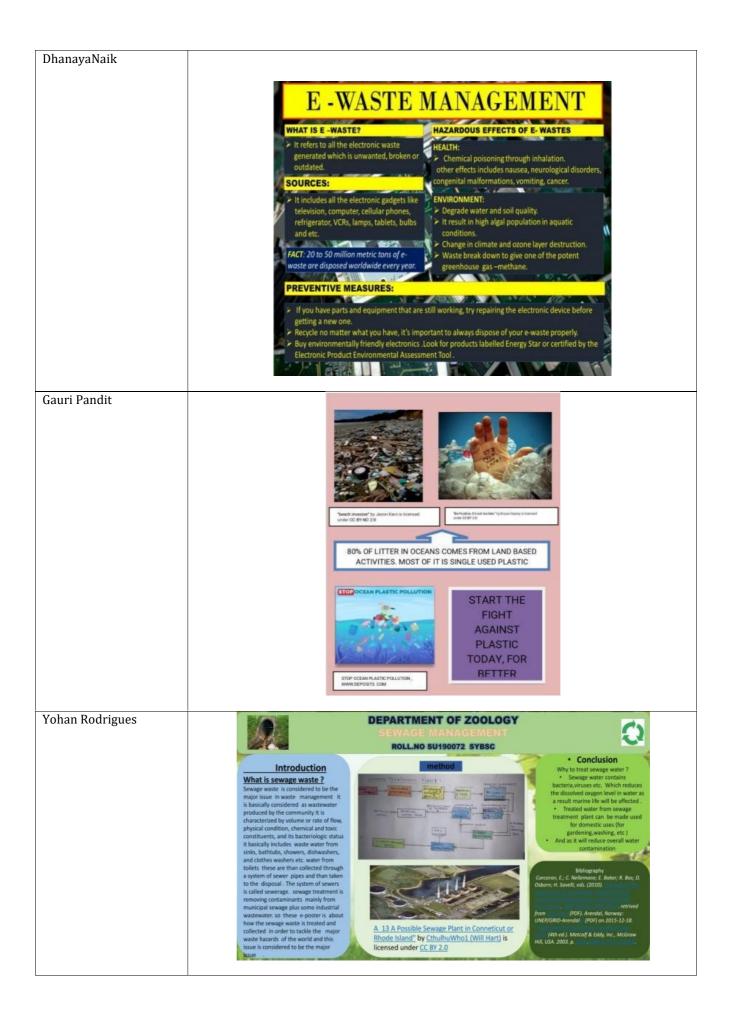




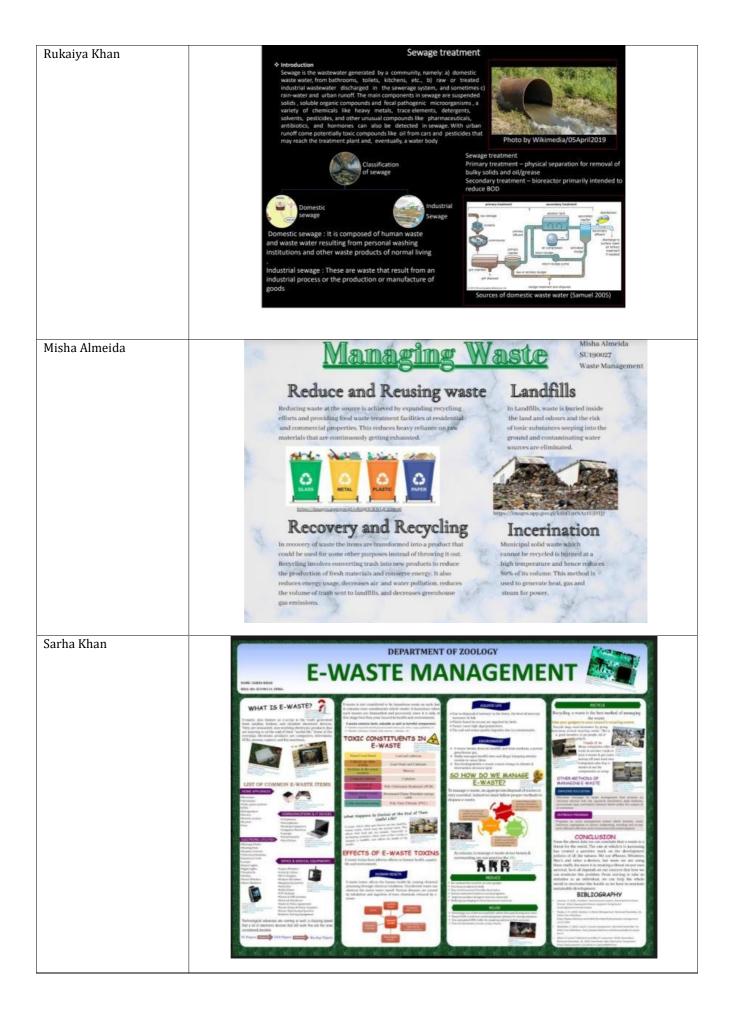
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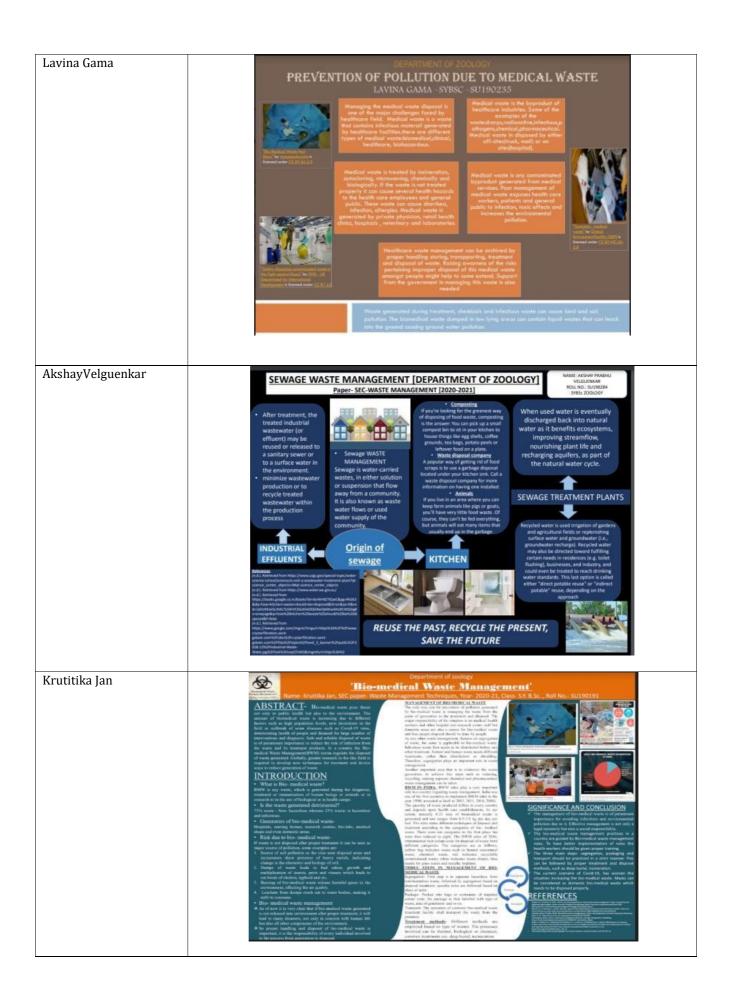


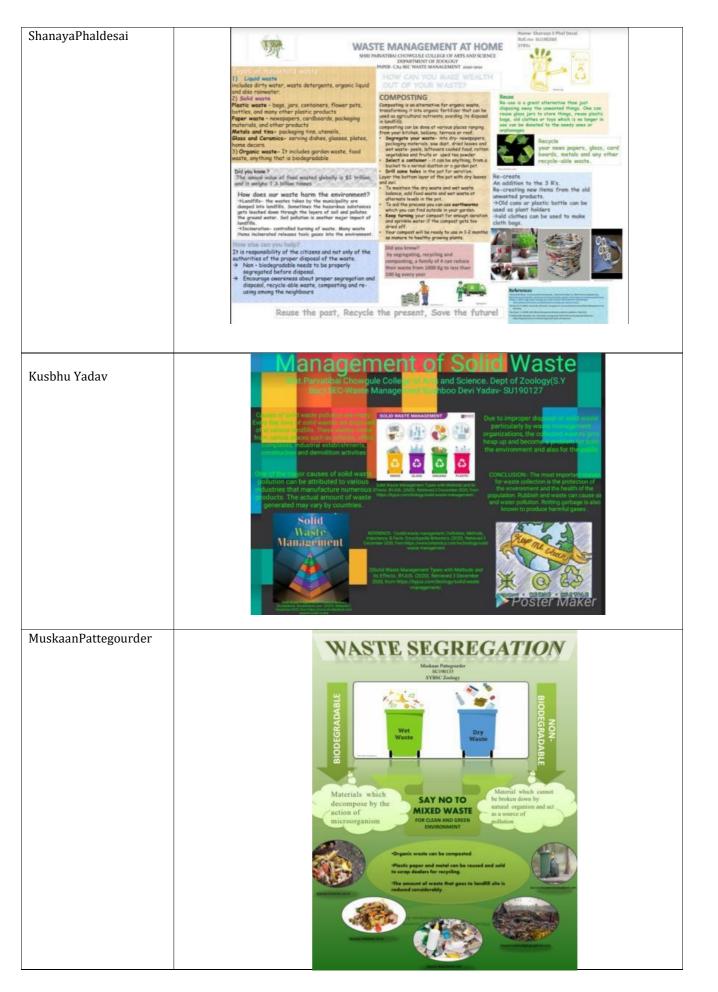






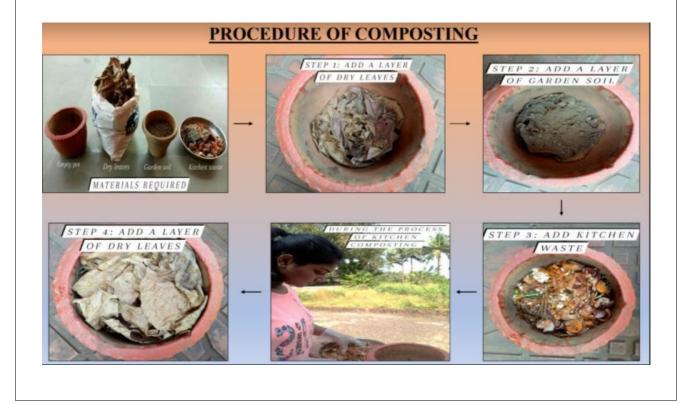








**ORGANICCOMPOSTING:** Organic composting mainly reduces the amount of organic waste generated. It cuts down the usage of chemical fertilizers and is used to remediate soils contaminated by hazardous waste. The students were explained the basic concept of organic composting and were given instructions on how to prepare kitchen compost effectively at home. The main aim of this activity was to encourage the students to use and promote organic composting as an ideal way of managing kitchen waste.





**HANDMADE PAPER** : As handmade papers are made from recycled papers, it is an effective method of decreasing the amount of waste generated. The use of recyled paper also reduces the number of trees cut down and promotes sustainable development. Handmade paper can be used to make diverse products such as bags, diaries, envelopes, packaging, office accessories and even card the students were given instructions on the process of handmade paper and encouraged to create various products using it. The main aim of this activity was to promote recycling paper and reduce the amount of waster generated.







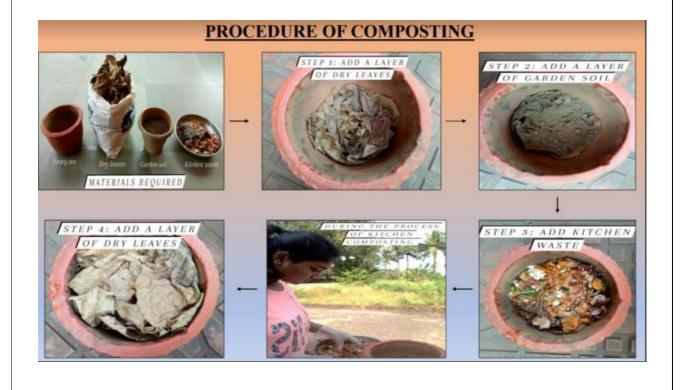
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STUDENTS OF SEC COURSE ON WASTE MANAGEMENT TECHNIQUES

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

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<b>REPORT OF MANGROVE DAY CELEBRATION</b>				
Title:	Mangrove day Celebration			
Date and year:	26 <sup>th</sup> July 2021			
Resource person	Department Of Zoology			
Organising	Department of Zoology And Mangrove Society of India			
Committee				
No. of Participants	15			
Objective	To spread awareness on the importance of mangrove diversity.			
Summary of the proceedings	Department of Zoology organised competitions for the students or the occasion of World Mangrove Day on 26 <sup>th</sup> July, 2021 in association with Mangrove Society of India. Slogan writing, Elocution competition and photography competition were organized for students of BSC Zoology. Winners of the competitions: i. <i>Slogan Competition:</i> The theme of the competitions was "Conservation of Mangrove ecosystem". Best slogan: Ms. Shanaya Phal Desai – SYBSc Zoology ii. <i>Elocution competition:</i> <i>Topic</i> : 1. Threats to mangrove ecosystem. 2. Importance of Mangrove. 3. Issues and challenges of mangrove conservation. Best elocution: Ms. Shanaya Phal Desai – SYBSc Zoology iii. <i>Photography Competition</i> : Theme "Mangrove Fauna" Best photograph: Ms Antara Poi Raiturker- TYBSc Zoology			
	Photographs			



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#### **GREEN INITIATIVES / ENVIRONMENT PROTECTION INITIATIVES -2020-2021** BY

**STUDENTS OF SEC COURSE ON WASTE MANAGEMENT TECHNIQUES** Guiding teachers: Dr. Nandini Vaz Fernandes, Ms. MadhuBalekai, Ms. Tessa Vaz & Ms. Gautami Manakikar

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# **NSS ACTIVITY REPORT**

#### Parvatibai Chowgule College of Arts and Science, Autonomous

- Title of the Activity: Sapling plantation on the occasion of World Environment Day
- **Date**: 05<sup>th</sup> June 2021

NSS volunteers clicked a Photo/recorded a Video while planting the sapling and shared it on the social media platform.

Student Volunteers	Male	Female	Total
	15	89	104

Some of the screenshots of the Photo/Video shared on social by by NSS volunteers while planting the sapling

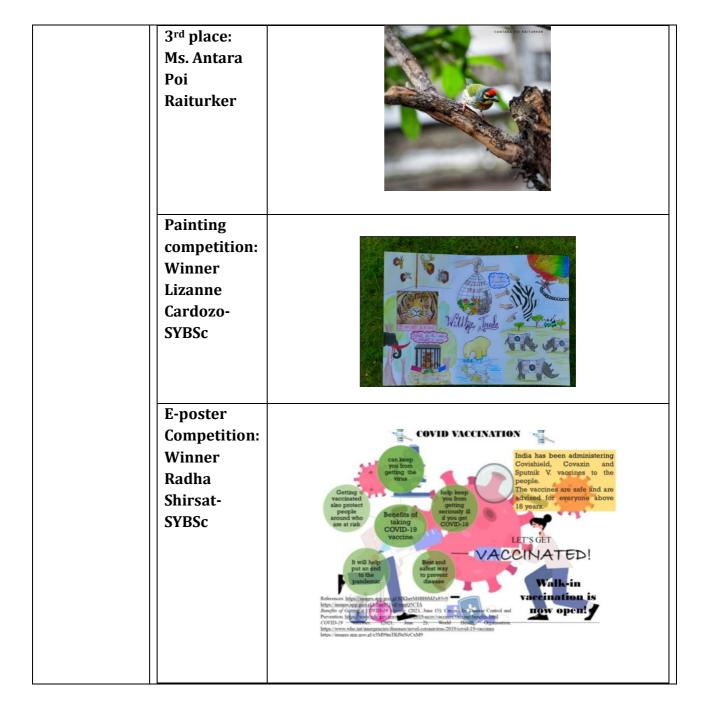


Report made by: Dr. Mayuri Naik, NSS Programme Officer



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Title:	Departmental activity		
Date and year:	20/06/2021-22/06/2021		
Resource person/s:	Department of Zoology		
No. of Participants	31		
Objective:	To sensitise the students on the importance of wildlife, Covid vaccination and wildlife trade.		
Summary of the proceedings	Department of Zoology organised competitions for the students as a part of departmental activity in the month of June from 20-06-2021 to 22-06-2021. Photography, poster and painting competitions were organized, in which 15 students actively participated. The theme of the competitions were ' My backyard wildlife', 'Importance on covid vaccination' and 'wildlife Trade' respectively. Winners of the competitions: Photography Competition: 1st place: Mr. Akshay Velguenkar- SYBSc 2nd place: Ms. Ferzeen Shaikh- TYBSc 3rd place: Ms. Antara Poi Raiturkar-TYBSc Painting competition: Best painting: Lizanne Cardozo, SY BSc E-Poster Competition: Winner:Radha Shirsat - SYBSc		
Photographs	Name of the participant 1 <sup>st</sup> place: Mr. Akshay Hanumanth Velguenkar 2 <sup>nd</sup> place: Ms. Ferzeen Shaikh	Photograph         Image: Constraint of the second	



#### **Report of World Environment Day**

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 5 <sup>th</sup> 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.

Dr. Nandkumar Sawant was invited as a Resource Person and delivered a talk on **Rejuvenating the coastal landscape** at the international webinar on Time for Nature, Post COVID-19 challenges to environmental challenges, organized by CHEC – INDIA, Jaipur on 5 <sup>th</sup> June, 2020 on the eve world environment day.

Dr. Nandkumar Sawant was invited as a Resource Person and delivered a talk on Perspectives of Sustainable Tourism on 9<sup>th</sup> June 2020 organised by Shristi Nature club, PES College, Farmagudi.

Dr. Mayuri M. Naik, NSS Programme Officer conducted a 2 hour online workshop on **Swachhta and Jalshakti** (Under Online Workshop on Swachhta Action Plan, an initiative by Mahatma Gandhi National Council of Rural Education) for NSS volunteers on 23<sup>d</sup> June 2020. Total 24 NSS volunteers (24 female, 0 male) participated in this online workshop.

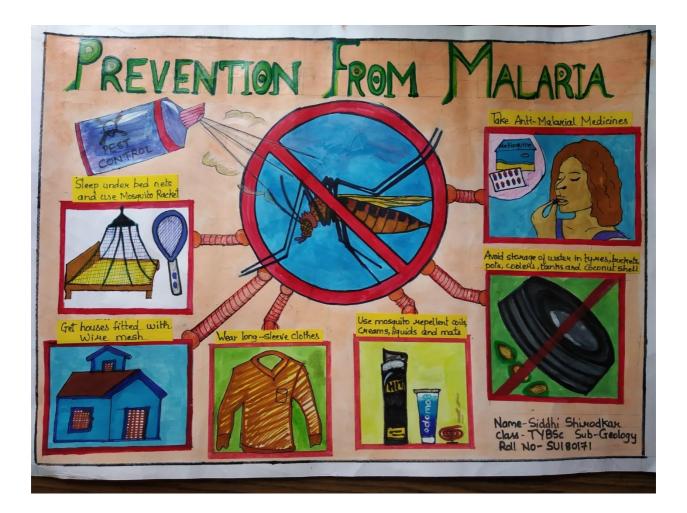


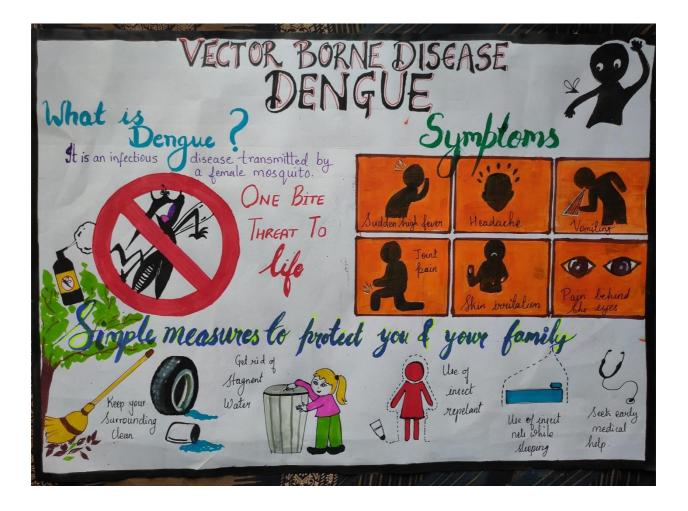


# **Report- Posters on Vector borne diseases**

Date of submission:09/10/2020

NSS Volunteers participated- 37 Female- 37 Male- NIL









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<b>REPORT OF FACULTY PARTICIPATION</b>		
Title:	'Bird Walk'	
Date and year:	05 <sup>th</sup> to 07 <sup>th</sup> February 2021	
Organising	Goa Forest Department	
Committee		
No. of Participants	25	
Objective	To expose students to various birds found at carambolim and maina Curtorim.	
Summary of the proceedings	<ul> <li>Dr. Nandini Vaz Fernandes and Mr. Stephen Dias, Departmemt of Zoology coordinated the 'Bird Walk' organised by Goa Forest Department from 05<sup>th</sup> to 07<sup>th</sup> February 2021. Bird walks were conducted at two sites viz. Carambolim Lake and Curtorim-Raia Lake (Maina-Curtorim Wetland Complex). Mr. Stephen Dias, Ms. Gautami Manakikar, Ms. Prasanna Naik Gaonkar and Ms. Pratibha Tripathi conducted the birdwalks for the general public on behalf of the forest department.</li> </ul>	
	<image/>	



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	REPORT OF FACULTY PARTICIPATION	
Title:	Pre-Bird Festival Webinars'	
Date and year:	29 <sup>th</sup> to 31 <sup>st</sup> January 2021	
Organicing	Con Forest Department	
Organising Committee	Goa Forest Department	
	Dr. Nandini Vaz Fernandes	
Resource person:		
	Parag Ragnekar	
	Amit raj	
	Golda DaCosta	
	Shalma Mascarenha	
	Pronoy Baidya	
	Jalmesh Karapurkar	
No. of Participants	nts 60	
Objective	To understand the biodiversity conservation-prospects and	
	challenges	
Summary of the	Dr. Nandini Vaz Fernandes, Associate Professor, Department of	
proceedings	Zoology was invited as a resource person by Forest Department,	
	Govt. of Goa, for the 'Pre-Bird Festival Webinars' organised from 29 <sup>th</sup>	
	to 31 <sup>st</sup> January 2021. Her session on "Introduction to Birdwatching"	
	was the opening session of the Pre-bird festival, which was live	
	streamed for general public all over Goa. The Pre-Bird Festival was	
	organised by Forest department as an initiative to create awareness	
	on the importance of bird conservation and to share the knowledge	
	of various birds and their role in the environment and the benefits of	
	birding	



Dr. Nandini Vaz Fernandes An Introduction to Birdwatching 15:30-16:30 Parag Rangnekar Bird Diversity of Goa and its potential as a bird tourism hotspot 16:30-17:30

Live Streaming on

https://www.facebook.com/100180528770151/live/