



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

**EXTENSION AND OUTREACH
PROGRAMS CONDUCTED BY THE
INSTITUTION**

*(Activities - Swachh Bharat, Aids
Awareness, Gender Issue, etc. and those
organised in collaboration with industry,
community and NGOs)*

2019-20

Sr.no	Name of the activity	Organising unit/ agency/ collaborating agency	Number of students participated
1	Awareness programme on No-SUP	AERO- Aaranya Environmental Research Organisation	50
2	Scratch Programming	DBT-Star College scheme and Department of Computer Science	18
3	Mop up day	Margao Urban health Centre, Directorate of Health Science, Govt. of Goa	0
4	Campaign against single use plastic	Department of Zoology and community	5
5	4R's and techniques of waste disposal	Department of Zoology and community	5
6	Awareness on sanitation- college campus	Department of Zoology and community	5
7	Organic composting and Biogas	Department of Zoology and community	4
8	Hazardous and need for proper management of radioactive and E waste	Department of Zoology and community	4
9	Awareness on sewage disposal and medical waste management	Department of Zoology and community	4
10	Awareness on importance of vermicomposting	Department of Zoology and community	4
11	Sources and disposal of waste	Department of Zoology and community	4
12	Awareness on reducing the use of plastic and ill effects of garbage dumping	Department of Zoology and community	4
13	Labelling waste- Bins for enable segregation of waste	Department of Zoology and community	44
14	Awareness of waste management in local communities	Department of Zoology and community	1
15	Methods of waste treatment and importance of practicing waste segregation and management	Department of Zoology and community	5
16	Blood Donation Camps	NSS unit in association with Indian Red Cross Society, Salcete Branch and Goa Medical College blood bank, Bambolim, Goa	112
17	National Road Safety Week 2020: A poster competition	NSS unit	31
18	National Road Safety Week 2020: Road safety rally	NSS unit	129
19	Swachhta Pakhwada: Swachhta pledge	NSS unit	35

20	Swachhta Pakhwada: Competitions on Poster making and Slogan writing	NSS unit	25
21	Swachhta Pakhwada: Best out of waste competition	NSS unit	3
22	Campus Beautification	NSS unit	949
23	Tree Plantation	NSS unit	25
24	World Environment Day: 'Poster making event' on the theme "Time for Nature"	NSS unit	25
25	Online Workshop on "Swachhta Action Plan" an initiative by Mahatma Gandhi National Council of Rural Education	NSS unit	24
26	Poshan Maah: Awareness Talk on "Nutrition	NSS unit	113
27	"SHRAMDAAN" to commemorate 150th birth anniversary of Mahatma Gandhi	NSS unit	310
28	Medicinal plant exhibition cum guest lecture	in collaboration with DBT and Goa State medicinal plants board	30
29	Herbal Cosmetology workshop	in collaboration with DBT	92
30	Kitchen Gardening workshop	in collaboration with DBT	74
31	Community outreach programme for Coastal Zone Management and Plan	Rainbow Warriors NGO	30
32	Sociofiesta: Extension Activity	Department of Sociology and All Colleges of Goa	40
33	Awareness on the various SC/ST schemes	Department of Zoology and local community	55
34	Beach cleaning and awareness on importance of marine life	Department of Zoology and local community	55
35	Awareness on plastic pollution	Department of Zoology and local community	55
36	Highlight the importance of physical fitness	Department of Zoology and local community	55
37	Awareness on the importance of personal hygiene	Department of Zoology and local community	55
38	Awareness on Malaria and Dengue	Department of Zoology and local community	55
39	Motivation campaign for blood donation	Department of Zoology and local community	55
40	Road Safety Awareness	Department of Zoology and local community	55
41	Preventing Malnutrition	Department of Zoology and local community	55

42	Importance of sleep	Department of Zoology and local community	55
43	Organic Farming	Department of Zoology and local community	55
44	Goenkarponn	Department of sociology-Goenkarponn	84
45	Providing Palliative care and empowering students through certificate Course	Dillasa Centre for Palliative care and Indian Medical Association-Ponda, Pallium India, Indian	40
46	International Women's Day Celebration: Menstruation and Hygiene awareness for Tribal Women in the Village of Marle-Cotigao Wild Life sanctuary	Department of Sociology	47
47	Agricultural drive at Pisonyar Village in Quepem Taluka	Department of Sociology	47
48	Panchayat Welfare Development	Department of Sociology -Club Human	50
49	Van Mahotsav	Department of Biotechnology, Chowgule College and Forest Department, Quepem	60
50	Lecture series on Plant animal interaction	in collaboration with DBT	70
51	Medicinal plant exhibition cum guest lecture	Goa State medicinal plants board	100
52	Creating paper bags to reduce plastic	Department Club Human	35
53	Skill Building: Personality development for children age 6 to 14	Department of Economics	35
54	CBC lecture series	Goa Forest Department	120
55	Mangrove Day celebration	In Collaboration with DBT	157
56	Wildlife week Celebration	Goa Forest Department	70
57	Bird Festival	Goa Forest Department	8
58	CBC Bird Walk	CBC / Department Of Zoology	17
59	Covid Awareness	Interdisciplinary activity DBT star college scheme-	16
60	Organic composting	Interdisciplinary activity DBT star college scheme-	10
61	SCI-FAIR - Science festival	Interdisciplinary activity DBT star college scheme-	309
62	Solar energy project	Interdisciplinary activity DBT star college scheme-	10
63	Awareness- Artificial Intelligence	Interdisciplinary activity DBT star college scheme-	164

**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 EXTENSION ACTIVITY ON SCRATCH
PROGRAMMING**

Title:	Scratch Programming
Date and year:	4 th and 5 th December 2019
Venue:	Computer Science department Lab
Resource person/s:	Ms. Ashweta Anand Fondekar
Organising Committee	DBT-Star College scheme and Department of Computer Science
No. of Participants	18
Objective:	<ul style="list-style-type: none">• To enable students to create projects that express their ideas.• To introduce basic computer programming to children of schools.• To make students think creatively, work collaboratively, and reason systematically.
Summary of the proceedings	<ul style="list-style-type: none">• Scratch is a project of the Lifelong Kindergarten Group at the MIT Media Lab. It is provided free of charge.• With Scratch, students can program their own interactive stories, games, and animations — and share their creations with others in the online community.• Scratch helps young people learn to think creatively, reason systematically, and work collaboratively — essential skills for life in the 21st century.



Participants, Coordinators and Volunteers of Scratch Programming.



Participants attending the session on Scratch programming



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COMMUNITY OUTREACH: REPORT OF "NATIONAL DEWORMING DAY"

Title:	"NATIONAL DEWORMING DAY"
Date and year:	5 th March 2019
Venue:	Anganwadis, Schools and higher secondaries
Organising Committee	Directorate of Health Services
No. of Participants	Chowgule College: 1. Dr. Nandini Vaz Fernandes 2. Ms. Andrea D'Souza, 3. Ms. Tessa Vaz Along with 3 Doctors and a nurse from Urban health Centre' Margao Goa':
Objective:	To monitor the National Deworming Day (NDD) and Mop Up Day(MUD)
Summary of the proceedings	As a part of Institutional social responsibility, the college participated in monitoring the National Deworming Day (NDD) and Mop Up Day(MUD) organized by the Directorate of Health Science. Ms. Andrea D'Souza, Ms. Tessa Vaz and Dr. Nandini Vaz Fernandes, along with health officers of 'Urban health Centre' Margao Goa participated in the supervision of administration of deworming tablets on National Deworming Day-25 th February 2019. The supervision was repeated on 5 th March 2019, as 'Mop up Day. Faculty members of Chowgule College monitored the NDD and MUD activities in Anganwadis, Schools and higher secondaries in association with 'Urban health Centre' Margao Goa. The report prepared was submitted to Chief medical officer, Directorate of health services, Goa.

Photographs





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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 "Blood Donation Camp"

N.S.S. unit of Parvatibai Chowgule college of Arts and Science, Autonomous organised a blood donation camp in association with Indian Red Cross Society, Salcete Branch and Goa Medical College blood bank, Bambolim, Goa on 28th August 2019 in the college campus. 120 students and staff participated in the camp and 63 units were donated to GMC blood bank.







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Report of “ National Road Safety Week 2020: A poster competition”

NSS unit of Parvatibai Chowgule college of Arts and Science, Autonomous observed National Road Safety Week 2020 from 11-17 January 2020. With regard to this, a **Poster competition** on the theme “Road safety” was held for NSS volunteers on 17th January 2020. 31 students participated by making different posters which gave a strong message about road safety.



अगर अपनी जान
का चाहते हो दिन,
तो **दलमट** (शिक्षण)
पहनो और रहे सुरक्षित।



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Report on “National Road Safety Week 2020: Road safety rally”

NSS unit of Parvatibai Chowgule college of Arts and Science, Autonomous observed National Road Safety Week 2020 from 11-17 January 2020. With regard to this, a **Road safety rally** was held on 17th January 2020 from 9.30 a.m. to 11.00 a.m.

The NSS Programme officers along with 129 NSS volunteers (12 male and 117 female) actively participated in this rally. Also, 2 traffic police officers accompanied the rally. The rally aimed to spread the awareness about road safety by compulsorily wearing helmets while riding 2-wheelers on the road so that in case of any accidents precious lives can be saved. The NSS volunteers tried to spread this message to the society to their best through various posters and slogans. Several posters which were based on road safety were held by the students throughout the rally along with raising different slogans such as “Hurt your helmet, not your head”, “Agar apni jaan ka chahtehoheet, to helmet pehano aur rahosurakshit”, “A helmet on your head, keep you away from hospital bed”, etc. All the students actively and enthusiastically tried to create the awareness among the local people through these slogans. Many people from their houses as well as present on the road appreciated the work of awareness programme on national road safety week 2020.







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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 “SwachhtaPakhwada: Best out of waste competition”

The N.S.S. unit of Parvatibai Chowgule college of Arts and Science, Autonomous, Margao Goa, observed the ‘SwachhtaPakhwada’ in January 2020 by organizing Poster making and Slogan writing competitions. These competitions were held on 20th January, 2020.

Poster competition:

For the Poster competition, the First place was awarded to Shaikh Saiida Banu; Second place was awarded to Shaik Arshiya Banu and Third place was shared by Roshani Tari and Muskaan. Total 10 Students (Female: 10 and Male: 0) were present for this competition.

Slogan writing competition:

For the Slogan writing competition, the First place was awarded to Saiksha Verenkar and Vishwahee Padiyar; Second place was awarded to Fanila Barreto and Third place was awarded to Vishwahee Padiyar. Total 15 Students (Female: 15 and Male: 0) were present for this competition.

All the NSS Program Officers were involved in organizing this activity.



Participants of the poster-making competition



Participants of the Slogan writing competition



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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.



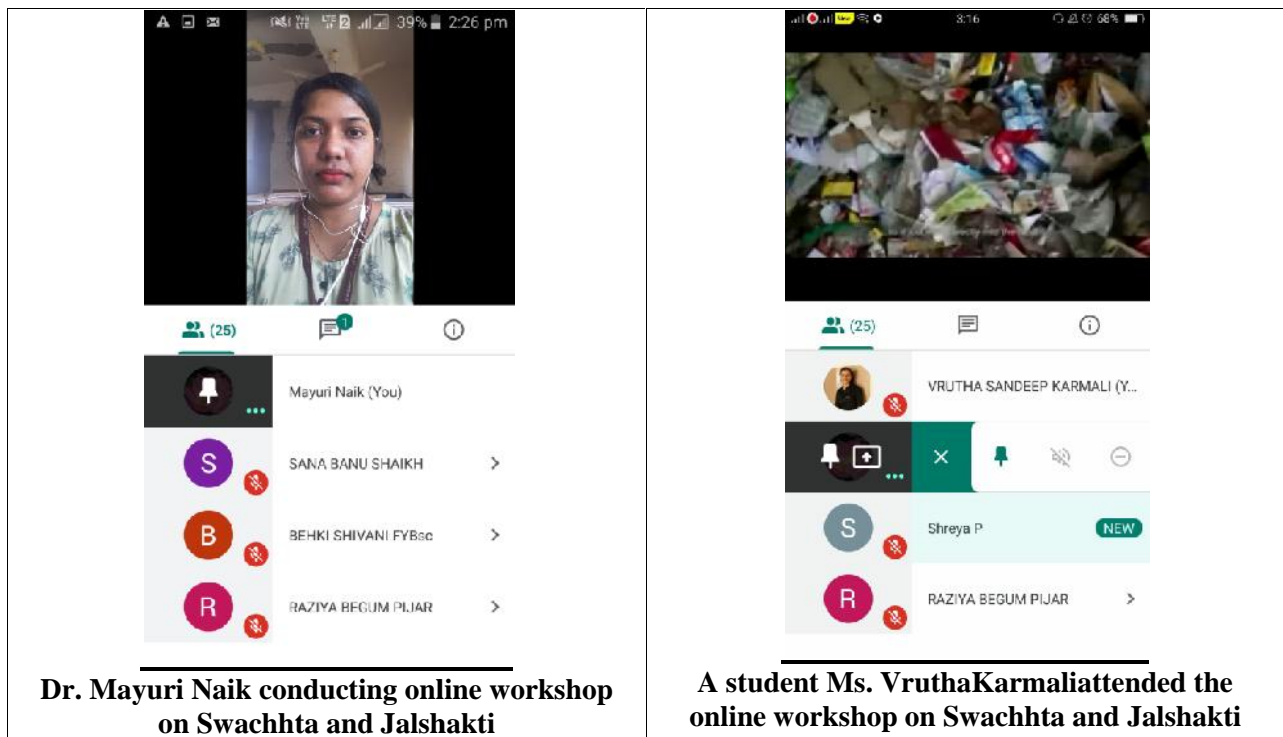
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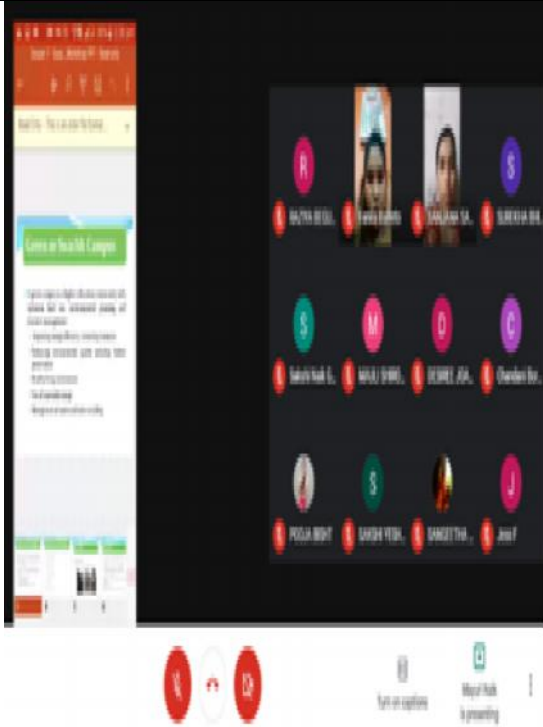
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Report on “Online Workshop on “Swachhta Action Plan” an initiative by Mahatma Gandhi National Council of Rural Education”

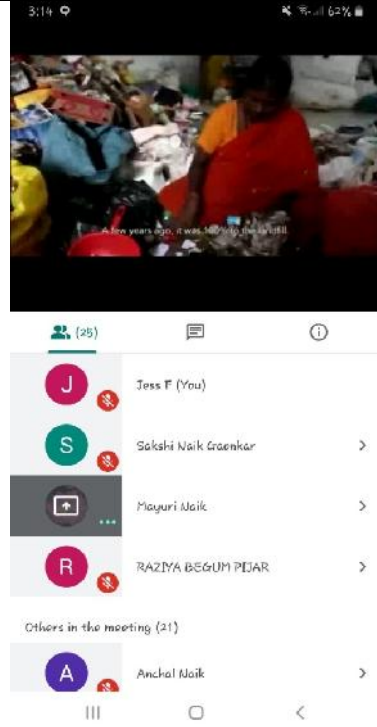
Dr. Mayuri M. Naik, NSS Programme Officer of Parvatibai Chowgule College of Arts & Science, Autonomous organized a 2 hour Online Workshop on ‘Swachhta and Jalshakti’ for the NSS volunteers. It was held on 23rd June 2020, under online workshop on “Swachhta Action Plan”, an initiative by Mahatma Gandhi 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



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Report on “PoshanMaah: Awareness Talk on "Nutrition"”

N.S.S. unit of Parvatibai Chowgule college of Arts and Science, Autonomous celebrated “PoshanMaah” (nutrition month) during September 2019. As a part of this program, a special talk by **Dr. Aduja Naik**, Assistant Professor, Department of Biochemistry was organised on 27th September 2019 in lower auditorium to spread the awareness on **Nutrition**.

All the N.S.S. Programme officers along with 113 NSSvolunteers (17 male and 96 female) attended the talk.

Dr. Aduja Naik had an interactive session with NSS volunteers and explained the importance of balanced diet. Several issues such as nutrition in adolescents, eating disorders in teenagers and diet during exams were also discussed.







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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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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 ethanobotanic 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 'HERBAL COSMETOLOGY WORKSHOP'

Title: Herbal Cosmetology Workshop

Date and year: 28 August 2019

Venue: Upper Auditorium

Resource person/s: 1. Dr.Sonal Sawant, Practising Ayurvedic doctor, Margao

2. Dr.RashmilaChindarkar, Practising Ayurvedic doctor, Mapusa.

Organising Committee: Mrs Gargi Lotlikar

No. of Participants: 92

Objective:1. To understand the applicative knowledge about Botany in the field of herbal cosmetology.

2. Awareness of natural beauty solutions

3.Understanding the preparation of different herbal products.

Summary of the proceedings: The workshop was divided into two sessions.

Dr.Sonal Sawant was the speaker for the first session. She gave a very informative lecture on the topic "Hair and its types, Ayurvedic management of hairfall, dandruff and premature graying" explaining the structure of hair, pigments and proteins of hair, types of hair (straight, curly , wavy etc). diet and nutrition required to maintain hair fall and dandruff, common causes for hairfall , dandruff and premature greying. The lecture was followed by demonstration of hair oils, shampoos and hair packs.

The second session was conducted by Dr.RashmilaChindarkar. The topic for her lecture was "Concept of Skin, skin types and metabolism. Ayurvedic guidelines about diet and nutrition for healthy skin". Dr Chindarkar explained about the the layers of the skin, types of skin like kapha , pitta and vata and enlightened the participants on how to maintain the skin and which products they can choose depending on the type of skin. The lecture was followed by demonstration where Dr.Rashmilas conducted small activity with the help of a simple questionnaire. This activity helped the audience to identify their skin type very easily. She also demonstrated the procedure of soap making (neem and tulsi).



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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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Parvatibai Chowgule College of Arts and Science, Autonomous Margao.

Department of Geology

**Report of Community Service Done to Prepare Draft Coastal Zone Management Plans for Villages
Across Goa**

The Department of Geology in collaboration with the NGO Rainbow Warriors carried out a massive exercise of preparing Draft Coastal Zone Management Plans for several villages across Goa. The entire exercise was carried during the months of August-September. A total of 36 Students from the Geology Department and one student from the Physics Department were involved in the exercise. The students were guided by Assistant Professor Malcolm Afonso.

The following Village Plans were completed as a part of the community service

1. Ambelim
2. Assolda
3. Assolna
4. Benaolim
5. Betalbatim
6. Borim
7. Carmona
8. Camorlim
9. Chinchinim
10. Curtorim
11. Deusua
12. Loutolim
13. Macasana
14. Navelim
15. Orlim
16. Rachol
17. Telaulim

The work carried out by the Geology Department as a part of the exercise was self financed by the students and faculty involved without any financial support from any Third party, NGO or Management of the College.

Sincerely,

Malcolm Afonso



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Department	Type of outreach activity	No. of students	Schedule
Geology	Community outreach programme in association with AbhijithPrabhudesai, Rainbow Warriors, NGO in field data collection and mapping of the coastal features for Coastal Zone Management and Plan (CZMP)	30	10/08/19 to 31/08/19

Date: 13/08/2019

Signature of the HOD

Benaulim commences work on draft CZMP

NT NETWORK
Benaulim

DIANA FERNANDES | NT

The villagers of Benaulim along with the panchayat body and village committees have begun working on drafting a fresh Coastal Zone Management Plan (CZMP).

A meeting was held on Friday to collect inputs from the locals.

The meeting saw stakeholders interacting with resource persons for listing their area-specific suggestions.

The stakeholders, including fishermen, farmers, shack operators, water sport operators and dairy farmers submitted their suggestions to the resource persons Abhijeet Prabhudessai, Venzy Viegas and a local Rudolf Baretto.

Viegas gathered all the suggestions, with the help of students from Chowgule college, and will do the groundwork and draft a new map. The map will be



Benaulim locals all eager to list their suggestions on drafting of new CZMP, on Friday.

first approved by a special gram sabha and then sent to the environment department.

Starting from the south boundary of the village, a list is being prepared of the houses; in the earlier plan, high tide line (HTL) was found to extend into ponds and paddy fields; boundaries of fishing wards were shown outside the Coastal Regulatory Zone (CRZ) area.

During the meeting, the locals urged for marking the entire beach stretch as

a fishing ward as fishing activities including fish drying, and 'parking' of boats are being carried out there.

Emphasis was also laid on correctly marking fields that are near the coast on the map.

"Sand dunes on the beach have to be marked correctly as it is the first defence in case of water rise. A unique feature of our village is the presence of fields that run parallel to the coast. This acts a reservoir in case the water level rises and breaks the sand

dunes. These fields will help hold water in the case of flooding, and should, therefore be shown in the CZMP," said a local and former sarpanch Agnelo Fernandes.

With the first step of data collection completed, the villagers will now conduct ground-level checks with the help of Chowgule college students and draft a new plan that is expected to be presented during the special gram sabha that would held on August 29.

AFTER CHENNAI-BASED NCSCM'S FLOP SHOW...**Saxttikars draft coastal plan with boats, drones****WANT GROUND REALITY TO FIND PLACE ON CZMP****THE GOAN | NETWORK****MARGAO**

Taking no chances after the fiasco by the Chennai-based NCSCM, Saxttikars seemed to have employed all mediums to draft the Coastal Zone Management Plan for their villages – right from motorised boats to drones, students and experts.

If the fishing communities inhabiting the banks of River Sal, along the Ambelim, Assolna Velim belt employed country-made motorised canoes to map the fishing activities in the river Sal, Varca village employed the drones to carry out the survey along the coastal belt in a bid to obtain the features on the ground. Other coastal villages, including Colva and Benaulim have used the expertise of the Citizens of Coastal Communities as well as Geology students of Chowgule College to ensure that the ground reality finds

PLANNING AHEAD

- Fishing communities inhabiting the banks of River Sal, along the Ambelim, Assolna Velim belt used country-made motorised canoes to map fishing activities
- Varca village employed drones to carry out survey along coastal belt to obtain features on the ground
- Colva and Benaulim used expertise of Citizens of Coastal Communities as well as Geology students of Chowgule College to ensure ground reality finds mention in CZMP

mention on the CZMP.

Says former Varca Sarpanch, Roland Fernandes: "The Varca panchayat roped in an agency to carry out the drone survey of the coastal areas of the village so that all the features are mapped properly on the draft-plan. We expect the agency to submit the plan prepared by the drone in a day or two, after which the villagers will give approval for the CZMP before it is forwarded to the government for approval".

Former Ambelim Sarpanch

Cruz Silva echoed similar sentiments. "We deployed motorized canoe to get the ground reality in the river Sal before mapping the fishing activities in the river Sal. The river Sal plays host to the rich habitat of various species of shell fish, including tistreos, kubes, shenanos, kalva etc. Besides, the river Sal play host to fishing stakes, right from Betul-Cutbona, to Ambelim, Assolna and right up to

➤Continued on P

MISSION VILLAGE PLAN

Fishermen avail services of geology students for mapping of fishing areas in river Sal

THE GOAN | NETWORK

MARGAO

Traditional fishermen inhabiting the banks of river Sal in the riverine villages of Velim, Ambelim and Assolna are on a different mission. Equipped with a motorised canoe, the fishermen along with students and experts moved around in the river, taking them right from Cutbona in Velim to Deusua in Chinchinim. And, the objective behind the boat ride is not for fishing as may appear, but to map the fishing spots in the river as well as sluice gates before they are all incorporated in the Coastal Zone Management Plan (CZMP).

The river Sal is the home for rich species of shell fish, including kalva, tiseos, shinaeos and kube, besides river fish such as the much-sought after shevite and mordoshe. If the Ambelim-Bandar area is the home for kalvas, the area around Zug Mabor is famous for shenaneos. While the river course around the Betal jetty area is known for much-sought after tiseos and kubas, stakes erections along the river course from Velim to the Deusua-Orlim bridge point helps the traditional fishermen to net river fish, making Sal the biggest river fishing belt.

Sadly, the fishing points in the river Sal and the fishing areas in these villages found no



Traditional fishermen from Ambelim and Assolna with students conducting mapping of fishing activities in River Sal.

THE EXERCISE

The team will map the coastal features in the CZMP, including sluice gates (mush), fishermen's huts and communities, community canoe ramp, location of aryo (traditional fishing), fish breeding grounds of tiseos (damps), zob (muscles), kalva (bar), etc, sanbards, aqua culture (manshios)

mention in the draft CZMP prepared by the Chennai-based NCSCM agency.

Former Ambelim sarpanch Cruz Silva told The Goan that the fishermen roped in students from the Department of Geology, Chowgule College, Margao to help them map the fishing areas in the river Sal. "The draft CZMP was silent on the fishing activities despite the fact that the river Sal has been the home for rich species

of shell fish and river fish, over the years. Hence, the fishermen have decided to carry out the exercise of mapping the coastal features with the help of the college students," he added.

He pointed out that the team will map the coastal features in the CZMP, including sluice gates (mush), fishermen's huts and communities, community canoe ramp, location of aryo (traditional fishing), fish breeding grounds of tiseos (clamps),

Benaulikars set in motion process to prepare draft plan

MARGAO: Benaulikars on Friday set in motion the process to prepare a draft Coastal Zone Management Plan (CZMP) for the village by involving various stakeholders, including the traditional fishermen, farmers, fishing communities, toddy tappers, beach shack owners and the villagers.

With the help of the coastal communities represented by activists Abhijit Prabhudesai and Wenzly Viegas, the villagers went about the job of showing the sluice gates (mush), the fishermen's huts and communities, the community canoe and fishing boat ramps, etc.

They also showed the location of the traditional fishing activities, aqua culture (manshios), besides sand dunes, paddy fields spread across the village. Water bodies, including the traditional gayes, which found no mention in the draft-plan, will be shown in the draft village plan. A villager Rudolf Barretto informed that beginning from Saturday, the team consisting of the stakeholders and the students of Chowgule College, Margao will undertake a field trip of the village for three days to the ground reality. "After gathering all the inputs from the stakeholders as well as from the field trip to the nook and corner of the village, a report will



Benaulim villagers, stakeholders and representatives of coastal communities huddled together to draft a new CZMP for the village.

be compiled which will then be placed before the special gram sabha to be conveyed next week," Rudolf said.

At the last meeting of the villagers held in July, Benaulim villagers carried out a thorough review of the proposed CZMP for the village prepared by NCSCM. It is found that the proposed plan prepared by NCSCM has failed to demarcate important coastal features both natural and man-made. It is noted that the location of high tide line has been wrongly extended into aquaculture ponds and paddy fields. The fishing wards have been shown outside the CRZ area.

zob (muscles), kalva (bar), etc, sanbards, aqua culture (manshios). "The exercise will also get the community celebration sites (traditions of Sao Pedro and Sao Paul, bat habitat, trawler dock, etc on the draft

CZMP. We intend to prepare a draft plan of the fishing areas in the river Sal, right from Velim to Deusua at the Orlim bridge," he said.

Cruz pointed out that the fishermen had to avail the

services of the students and a teacher to carry out the mapping of fishing areas in river Sal as the government is yet to place at the disposal of the fishermen, experts to conduct the mapping exercise.

Loutolim, Chinchinim reject draft CZMPs

Slam govt for effecting 'no changes' despite sending their suggestions

Team Herald

MARGAO: Rejecting the draft Coastal Zone Management Plans (CZMP) sent by the government, Loutolim and Chinchinim Deussua villagers on Sunday slammed the government for effecting "no changes" in the draft despite sending their suggestions.

The locals at the Loutolim gram sabha, which was attended by around 170 villagers, claimed that the present draft sent to them has the earlier pages shown on one page.

Explaining the plan sent by the government, Village Development Committee chairman Ramiro Mascarenhas said the second plan showed the ground reality based on Google Maps,

'GARAM' SABHAS

AT LOUTOLIM: Villagers claim that the present draft sent to them has the earlier pages shown on just one page

- Point out to some discrepancies and decide to invite suggestions till October 4

- Show 20 sluice gates which the government failed to mark

- Want the names of the people whose houses have been marked in the CRZ to be mentioned in the plan along with the plot survey numbers

- Stress the need to protect houses at Rassaim, which are practically on the river bank

- Ask panchayat to write to the CoP not to issue anymore permissions to use riverine land

- Sarpanch assures the people that the plan would be kept open for public scrutiny till Oct 4 in the panchayat hall and the map would be explained to the people

AT CHINCHINIM: Villagers furious over the govt's failure to depute a person to explain to them the plan

- Claim that there were no changes in the plan except what was earlier shown in four pages has now been presented on one page

- No sluice gates have been shown in the plan submitted by the govt as the villagers' plan prepared with the help of Chowgule College students shows six sluice gates and all water bodies

which had all details marked including the names of Kator or the fishing areas, names of khazans and sluice gates. Finally, a third map was shown

which would be sent to the government. When the villagers pointed out to some discrepancies it was decided to invite suggestions till October 4 following

which the plan would be sent to the government.

Sarpanch Filipina Fernandes assured the people

Contd on Pg 5 >>

O Herald Edition

30 Sep, 2019 Page No. 1

Ref.No. VP / CD/2019-20/ 1064

To,
The Parish Priest,
Our Lady of Hope Church Chinchinim,
Chinchinim, Salcete, Goa.



Office of Village Panchayat
Chinchinim - Deussua
Salcete -Goa.

Date: 17/8/2019

Sub: Announcement during Sunday Mass.

Rev. Father,

This is to inform you that the planning and mapping of CRZ Plan for the Village Chinchinim - Deussua will be done on Monday 19th August 2019 with the help of Chowgule College students who will provide technical knowledge.

As per the following timings as under:

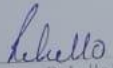
Sr. No.	Ward	Venue & Timings
1	Durga & Sucaldem	Durga Chapel at 3:00 p.m.
2	Tolleaband, Coddeavaddo & Deussua	Deussua Club at 5:00 p.m.

Panchayat members affected by the said CRZ Plan to inform all the Stake holders to present for the same. Example: fishermen, toddy tappers etc.

Kindly make it convenient to attend the same and give your valuable inputs for the same.

Thanking you,

Yours faithfully,


(Smt. Inacina Rebello)
Sarpanch, V.P. Chinchinim - Deussua
SARPANCH
V. P. Chinchinim - Deussua

Copy to:

1. Datta Mandir, Palmar Grande Chinchinim.
2. The Chaplain, St. Anthony Chapel, Deussua Chinchinim
3. Ward Members Doura Fernandes, Melcy Barretto, Enicia Pereira, Flory Pereira & John Pereira of V.P. Chinchinim - Deussua




Students team with village panchayat members at Assolna, Chandor, Varca, Deussua



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Report on “EMBRACING THE OTHER PROGRESSING TOGETHER”	
Title:	SOCIOFIESTA: Theme: EMBRACING THE OTHER PROGRESSING TOGETHER
Date and year:	JANUARY 19
Venue:	Upper Auditorium, Parvatibai Chowgule College
Resource person/s:	
No. of Participants	40
Objective:	The objectives of this event were as follows: 1.To pause and reflect upon the 'other' and create strategies to embrace them thereby contributing to the overall progress of oneself vis-à-vis the humanity. 2. To unleash the hidden talents of the students.3.To foster sister/brotherhood among the Students.
Summary of the proceedings	Four colleges participated for the event, with the total of 40 participants and along with one accompanying teacher from Rosary College of Commerce & Arts, Navelim; Shree Mallikarjun College of Arts and Commerce, Canacona; C.E.S College of Arts & Commerce, Cuncolim; and M.E.S College-Zuarinagar. The Chief Guest for the event was Ms. Juliana Lohar (Co-Ordinator of ARZ-NGO), the special invitees were Ms. Diana Dias (Founder of Wajood-NGO) and Ms. ChrishnaaVerencar-Ex. Student of the Department and founder of Healers (NGO), the event was also graced by Dr. Debashish Majumdar (Dean, Social Sciences).
Photographs	







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COMMUNITY OUTREACH ACTIVITIES BY DEPARTMENT OF ZOOLOGY (2019-2020)

Community Outreach activities By Department of Zoology: As part of social responsibility, the TYBSc students carry out community outreach activities every year since 2017, under the guidance of all the faculty members of the department. 11 community outreach activities were carried out by 55 students of department of Zoology.

- 1) ***Awareness on the various SC/ST schemes:*** The Community Outreach Activity to create awareness on the various SC/ST schemes was held from 17th to 20th December 2019 in Davorlim village. Total of 40 houses from Davorlim village were considered for the programme. The main aim of this activity was to spread awareness regarding the various SC/ST schemes provided by the government and its benefits. The students informed about the eligibility criteria and also the necessary documents essential to apply for the schemes and the contact person for the schemes. The students provided information regarding various schemes viz. Housing scheme, Saral Vidya Scheme, meritorious scholarship scheme, Kanya Dhan Scheme and others. Soft copy of the schemes was also shared with the community.



- 2) ***Beach cleaning and awareness on importance of marine life:*** The community outreach programme was carried out at Varca Beach, Majorda Beach and Utorda Beach. It involved interaction with the local community of these coastal areas, tourists and shack owners. A questionnaire was administered to know their level of awareness of beach pollution and its consequences. About 50 people answered the questionnaire survey, giving out their opinions and suggestions on maintaining the cleanliness of the sea shore. The students also carried out beach cleaning activities. The main aim of this was to highlight the importance of cleanliness of the beaches and the need to maintain it.



3) **Awareness on the plastic pollution:** As a part of the community outreach activity, an awareness drive on plastic pollution was carried out on 17th and 18th December 2019 in Gogol. The main aim of this activity was to create awareness regarding the plastic pollution and its effects on the environment. A short questionnaire was prepared to understand the public opinion on plastic pollution. The students surveyed a total of 50 houses, hotels, cafes, cake shops, and liquor shop. The students explained the harmful effects of plastic to the animals and environment. They also suggested alternatives of saying no to plastic straw and using environment friendly material instead of plastic.



4) **Highlight the importance of physical fitness:** The community outreach activity on awareness on importance of Physical fitness/exercise was carried out from 17th-20th December 2019 in Gogol, Margao. The students surveyed a total of 110 individuals with the help of a questionnaire. It was observed that 70% of the individuals were not aware of dietary causes of “obesity” and its association with lack of physical activity. The students explained the importance of maintaining a healthy diet and including some form of physical activity such as walking and jogging in their daily routine.



5) **Awareness on the importance of personal hygiene:** As a part of the community outreach activity, awareness on the importance of personal hygiene and ringworm infection was carried out from 17th-20th December 2019 in Gogol, Margao. The students surveyed a total of 109 individuals with the help of a questionnaire. 10% of the people interviewed had contacted ringworm infection earlier. The students also informed about ringworm infection and how it can be avoided and controlled.



6) **Awareness on Malaria and Dengue:** The community outreach was conducted in two localities near Chowgule College, namely Housing board and Agalli, from the 21st to the 23rd of December, 2019. The students surveyed a total of 20 houses. 20% of the people surveyed had family members who had suffered from either malaria or Dengue. The students informed that the diseases were curable, but if not intervened can lead to the death of the individual. The symptoms of the diseases and need for seeking medical help if these symptoms are seen was conveyed to the community. People were informed about the causes, diagnosis and treatment of these diseases. Preventive measures for the same were also explained.

7) **Motivation campaign for blood donation:** The community outreach was conducted in two localities in Housing board and Agalli, from the 21st to the 23rd of December, 2019. Altogether 80 houses were surveyed and made aware about blood donations and its importance as social virtue. The main objective of the program was to motivate people to donate blood. They were informed about how blood donations would save many lives. They also explained about the different blood donation services.



8) **Road safety awareness:** was held on 17th and 18th December 2019 in Arlem and Curtorim. The students prepared a questionnaire regarding road safety and traffic laws. A chart containing all traffic signals was also shown to every household, in order to make them familiar. A total of 25 houses were covered, most of them being apartments in a complex. Most of the people had some strong opinions about traffic laws and fines. According to about 80% of the people interviewed, the increase in traffic fines was justified, as they thought it is a stronger way to implement traffic rules. At the same time about 90% of the people felt that proper road and maintenance are directly proportional to road safety.

9) **Preventing Malnutrition:** A community outreach programme was conducted on 18th December 2019 to create awareness on "Importance on Having a Healthy Diet". Total of 17 houses were surveyed. A Performa was prepared to obtain information about the food habits, food allergies etc. A chart on healthy diet as approved by WHO was provided to the people, especially to make them understand the dietary requirements of children, adults and elderly.



10) Importance on Sleep: This community outreach programme was conducted from 16th -18th December 2019. Total of 31 individuals were surveyed. A questionnaire was prepared to obtain information on individuals' sleeping pattern, duration of sleep etc. 41% of the individuals had a problem of disturbed sleep but did not show any symptoms of insomnia. Students and the working individuals were explained about the importance of sleep and its effects on their health and ill effect of induced sleep using sleeping pills.



11) Organic Farming: The community outreach activity was conducted on organic farming from 13th to 23rd January in Borda. The local community was informed about simple strategies of adopting organic farming at their homes. They were informed about concept of bioaccumulation and biomagnifications and leaching of chemical fertilizers into the surrounding water bodies.





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Report on “Goenkarponn (Promoting Goa’s Culture)”	
Title:	Goenkarponn (Promoting Goa’s Culture)
Date and year:	January 2020
Venue:	Upper Auditorium, Parvatibai Chowgule College
No. of Participants	84
Objective:	Create, Relive and Appreciate the Goan Culture; unleash the hidden talents of the students through Sociology; create a spirit of competition; and foster sister/brotherhood among the Goan students.
Summary of the proceedings	The department of sociology organised the 4th edition of Goenkarponn 2020 an inter higher secondary event on 28 th January 2020. A total of six higher secondaries participated namely St. Alex Higher Secondary School, Curtorim, HarmalPanchkroshiHarmal, CTN Higher Secondary Curchorim, Cuncolim United Higher Secondary, Maria Bambina Higher Secondary School Cuncolim. The chief Guest for the event was Mr. DevidasGaonkar who is a journalist and tribal activist from Goa. This event was coordinated by the faculty from the Department Ms. Sayali k Gaonkar under the guidance of head of the department Dr. Sachin Savio Moraes. There were total of eight competitions like fold dance, quiz, fashion show, sweets, feast and festivals, street play, current issues, flag painting. First place for the event was bagged by Cuncolim United Higher Secondary School and runner’s up was HarmalPanchkroshi Higher Secondary School HarmalPernem.

Photographs









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Report on “Visit to Patients of Dillasa Centre of Palliative Care”	
Title:	Visit to Patients of Dillasa Centre of Palliative Care
Date and year:	1 st and 2 nd February 2020
Venue:	Dillasa Centre of Palliative Care-IMA Ponda Goa
Resource person/s:	
No. of Participants	41
Objective:	<ol style="list-style-type: none">1. Understand and sensitize about the Patient of Palliative Care2. Create a sense of empathy among students3. Provide with love and affection to the patients
Summary of the proceedings	A total of 41 Students spend 3 hours each on 1 st and 2 nd of February 2020 in the Palliative Care Home managed by Dillasa a non-profit organization duly supported by the Indian Medical Association at Ponda-Goa. The students interacted and shared time to understand the patients and their needs. The students got sensitized towards to need and welfare of the less fortunate section of society such as the inmates of this Centre.

Photographs









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Report on “International Women’s Day Celebration”	
Title:	International Women’s Day Celebration: Menstruation and Hygiene awareness for Tribal Women in the Village of Marle-Cotigao Wild Life sanctuary
Date and year:	8 th March 2020
Venue:	Marle-Village,Cotigao Wild Life sanctuary-Goa
Resource person/s:	Students and Faculty Dr. Sachin Savio Moraes and Ms. SayaliGaunkar
No. of Participants	47
Objective:	<ol style="list-style-type: none">1. Create Awareness about menstrual hygiene2. Celebrate Women hood3. Provide with solution to maintaining menstrual hygiene
Summary of the proceedings	The Department of Sociology organised a field trip to Marle Village in Cotigao-Canacona, on 7 th and 8 th March 2020, for its Qualitative Research Course and other students of Fy, Sy, Ty. The Department initiated an awareness programme on hygiene during menstruation. The students during their initial interaction found out that most of the women used cloth as they couldn't afford to buy sanitary pads. The students and faculty then had common gathering of all the women young and old and celebrated the international women's Day for the first time in the history of the village. The faculty and students explained the use and benefits of the sanitary pads and then distributed the pads to them, they were also made aware of cheaper options of pads. The students performed songs and dances as part of the celebration.
Photographs	










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Report of "Agricultural drive at Pisonyar Village"

Title:	Agricultural drive at Pisonyar Village in Qupem Taluka
Date and year:	30th July 2019
Venue:	Pisonyar Village in Qupem
Resource person/s:	Students and Faculty Dr. Sachin Savio Moraes and Ms. Sayali Gaunkar
No. of Participants	47
Objective:	<ol style="list-style-type: none">1. Understand and appreciate the occupation of farming2. Help in the process of farming
Summary of the proceedings	Agricultural drive at Pisonyar Village in Qupem Taluka: Students had to interact with the villagers and learn about their village agrarian setup, they also had to learn about the process of growing paddy crops by doing it themselves along with the villagers. The students also had to understand the agrarian structure of rural society. The total of 47 students along with faculty Ms. Sayali K Gaunkar visited the place. The students thus helped the villagers in the paddy cultivation process.
Photographs	



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Report on "Panchayat Welfare Development"	
Title:	Panchayat Welfare Development
Date and year:	1st August 2019 to 15th September 2019
Venue:	10 panchayats i.e.Xeldem, Davorlim, CurtiPonda, Raia, Navelim, Velsao, Guirdolim, Balli, NuvemBenaulim and Orlim
Resource person/s:	Students and Faculty Dr. Sachin Savio Moraes and Ms. SayaliGaunkar
No. of Participants	50- Groups of 5
Objective:	
Summary of the proceedings	<p>Panchayat Welfare Development: The students from the department of Sociology collaborated with a total of 10 panchayats i.e.Xeldem, Davorlim, CurtiPonda, Raia, Navelim, Velsao, Guirdolim, Balli, NuvemBenaulim and Orlim. A total of 50 students in a group of five students adopted a panchayat to work. The students took up the following works during the period of 1st August 2019 to 15th September 2019.</p> <ol style="list-style-type: none">Swatch Bharat AbhiyanSurvey for Conducting Sanitation check of the villageSurvey of old age count in the villageComputer Coaching to the kids of Nuvem PanchayatStreet Play for Villagers to spread the message on Swatch Baharat AbhiyamCleanliness drive by the students

Photographs





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REPORT OF 'Van mahotsav'

Title:	Van Mahotsav
Date and year:	15 th August 2019
Venue:	ParvatibaiChowgule College Campus
Resource person/s:	-
Organising Committee	Biochrome Club of the dept of Biotechnology
No. of Participants	60
Objective:	To raise awareness about the environmental problems and trying to be individually responsible for helping to increase the green cover of the environment
Summary of the proceedings	Biochrome – Biotechnology Club of Department of Biotechnology celebrated 'Van Mahotsav' on 15th August 2019 on the occasion of 73rd Independence Day celebration by planting 50 saplings of Gulmohar, Neem, Almond, Flame tree, Ornamentals and flowering plants sponsored by the Forest Department, Aquem, Goa in the college campus with the theme 'Planting trees: A stride towards Green Goals'. Students, faculties and non-teaching staffs from various departments participated in this event.

Photographs







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<u>REPORT OF LECTURE SERIES ON PLANT ANIMAL INTERACTION</u>	
Title:	Lecture Series On Plant Animal Interaction
Date and year:	15 th January 2020
Venue:	Parvatibai Chowgule College of Arts and Science
Resource person/s:	<ol style="list-style-type: none">1. Dr. M K. Janarthanam, Professor at Department of Botany at Goa University2. Mr. Parag Rangnekar, State Co-ordinator for Goa of the Indian Bird Conservation Network (IBCN) and also the founder President of the Goa Bird Conservation Network (GBCN)3. Ms. Andrea DSouza, Assistant Professor, Department of Zoology, Carmel College for Women
Organising Committee	Department of Botany, funded by DBT Star College Scheme.
No. of Participants	70
Objective:	To enlighten the students about the importance of all the living organisms around them To help them understand about the various interactions taking place around them. To learn the significance of biodiversity.

Summary of the proceedings

The Department of Botany of Parvatibai Chowgule College of Arts and Science (Autonomous) Margao-Goa organised a lecture series on Plant Animal Interaction was by the funded by DBT star college scheme on 15th January 2020. Dr. M K. Janarthanam, Professor at Department of Botany at Goa University, Mr. Parag Rangnekar, State Co-ordinator for Goa of the Indian Bird Conservation Network (IBCN) and also the founder President of the Goa Bird Conservation Network (GBCN) and Ms. Andrea DSouza, Assisstant Professor at Carmel College for Women. The first Lecture was delivered by Dr. M K. Janarthanam on Plant Animal Interaction in the Context of Pollination. The second lecture was by Mr. Parag Rangnekar on the topic Creating a Butterfly Friendly Habitat followed by a lecture on Plant Animal Coevolution.

Photographs







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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 on "Community Outreach Program"

Title:	Community Outreach Program on "Skill Building: Personality development for children age 6 to 14".
Date and year:	August 2019 to 14 th December, 2019 (Class conducted on every Tuesday)
Venue:	Parvatibai Chowgule College
Resource person/s:	
Organising Committee	
No. of Participants	35
Objective:	
Summary of the proceedings	Department of Economics organised community outreach program, "Skill Building: Personality development for children age 6 to 14". This initiative was started in August 2019 and around 35 students age 6 to 14 residing near Chowgule College enrolled themselves. Every Tuesday there was a class conducted on personality development and included modules like singing, dancing, chess, public speaking, hygiene, storytelling, handwriting etc. The valedictory function of this program was conducted on 14 th December 2019. 25 students participated in various events like drawing competition and handwriting competition, Chess etc trained by 15 volunteers from first year BA, Economics.


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 '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

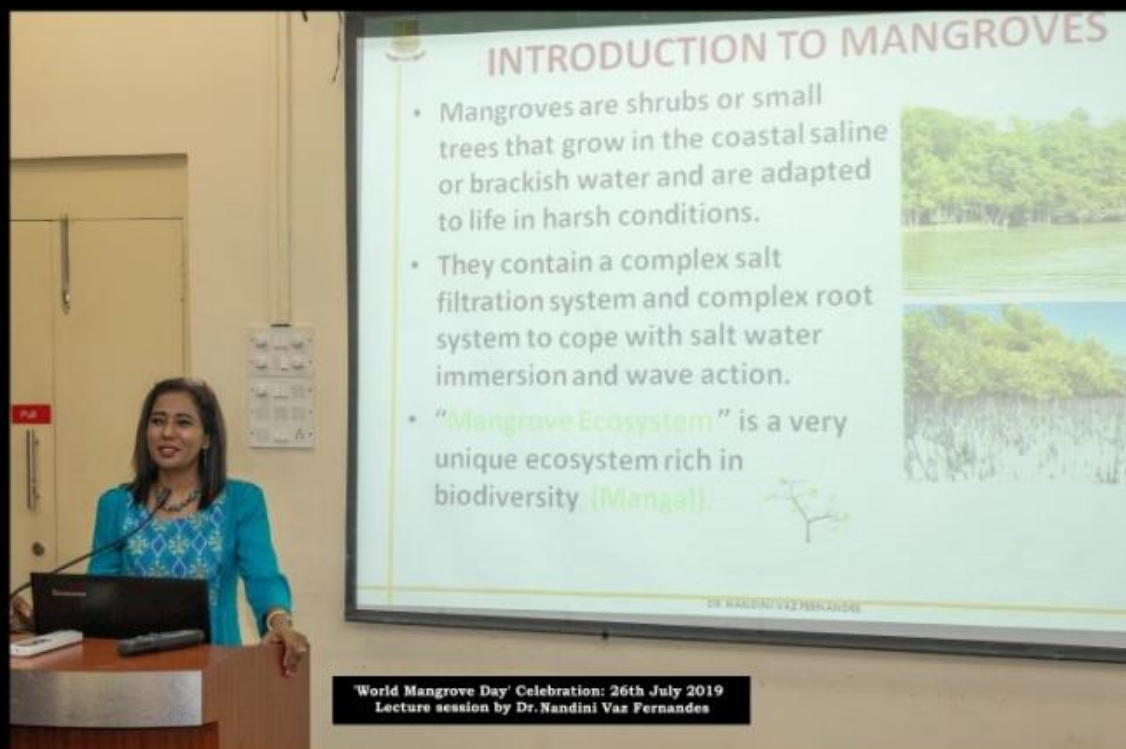
All the posters, Paintings and Photographs were exhibited in the College Quad. The winners were felicitated during the valedictory function at the

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 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 AWARENESS PROGRAMME ON COVID 19

Title:	Awareness Programme – COVID 19
Date and year:	10 th March 2020 – 17 th March 2020
Venue:	1) General village community 2) Market Places 3) Malls/Shops/Bus-Stands.
Coordinated by:	Dr. Nandkumar Sawant Dr. Nandini Vaz Fernandes Dr. Lactina Gonsalves
Organising Committee	DBT Interdisciplinary activity
No. of Participants	16 Faculty of Chowgule College
Objective:	To create Awareness on Hygiene/Safety measures to prevent spread of COVID 19.
Summary of the proceedings	Tow posters were prepared indicating the Sites for retrieval of authentic information and advisories of: 1) Govt. Of India (National Centre for Disease control' Ministry of Health, Govt. of India. 2) Directorate of Health services, Govt. of Goa. 3) World health Organisation. Links of these sites were provided on the posters. Also, for general awareness of public, information on COVID 19, how it spreads and

symptoms associated were displayed. Various hygiene protocols and travel protocols were also displayed in the posters.

These posters were pasted at areas where people could read and be informed about the precautions to be taken to prevent the spread of COVID 19. 16 Faculty members pasted the posters at market places, bus-stands, malls, shops, and marts.

PHOTOGRAPHS



LETS STAY HEALTHY



An Awareness initiative by
Parvatibai Chowgule College of Arts and Science
 (Autonomous)
 under DBT STAR College Scheme

To know more about the GOVERNMENT OF INDIA
 Advisories, Log on to "National Centre for Disease Control"
 Ministry of Health & Family Welfare, Government of India
 at
<https://ncdc.gov.in/index4.php?lang=1&level=0&linkid=127&lid=432>
 Or Ministry of Health and Family Welfare | Govt. of India
 at: <https://www.mohfw.gov.in/>
 Or Directorate of Health Services, Government of Goa at:
<http://www.dhsgoa.gov.in/>
 International : World health Organization(WHO) at
<https://www.who.int/emergencies/diseases/novel-coronavirus-2019>

Protect others from getting sick

When coughing and sneezing
 cover mouth and nose with
 flexed elbow or tissue



Throw tissue into closed bin
 immediately after use

Clean hands with alcohol-based
 hand rub or soap and water
 after coughing or sneezing and
 when caring for the sick



Wash your hands

Wash your hands with
 soap and running water
 when hands are visibly
 dirty



If your hands are not
 visibly dirty,
 frequently clean them
 by using alcohol-based
 hand rub or soap and
 water



STAY HEALTHY WHILE TRAVELLING

When coughing and sneezing
 cover mouth and nose with
 flexed elbow or tissue – throw
 tissue away immediately and
 wash hands



If you choose to wear a face mask, be
 sure to cover mouth and nose -
 avoid touching mask once it's on

Immediately discard single-use mask
 after each use and wash hands after
 removing masks



STAY HEALTHY WHILE TRAVELLING

Avoid travel if you have
 a fever and cough



If you have a fever, cough and
 difficulty breathing seek medical
 care early and share previous
 travel history with your health
 care provider



Protect yourself and others from getting sick

Wash your hands

- after coughing or sneezing
- when caring for the sick
- before, during and after you prepare food
- before eating
- after toilet use
- when hands are visibly dirty
- after handling animals or animal waste





AWARENESS ON CORONAVIRUS (COVID-19)



Initiative
By
Parvatibai Chowgule College of Arts and Science (Autonomous)
Margao-Goa
under **DBT STAR College Scheme**

Corona virus Facts

- ✳️ **Corona virus disease (COVID-19)** is an infectious disease caused by a new virus that had not been previously identified in humans.
- ✳️ The virus causes respiratory illness (like the flu) with symptoms such as a cough, fever and in more severe cases, pneumonia.
- ✳️ 80% of the cases are mild and people recover without any special medical treatment.

FACT:
The new coronavirus can be transmitted in areas with hot and humid climates

Protect others from getting sick
Avoid close contact when you are experiencing cough and fever
Avoid spitting in public

If you have fever, cough and difficulty breathing seek medical care early and share previous travel history with your health care provider

Be **INFORMED**
Be **PREPARED**
Be **SMART**
Be **SAFE**
Be **READY** to fight **#COVID19**

UNITED NATIONS World Health Organization

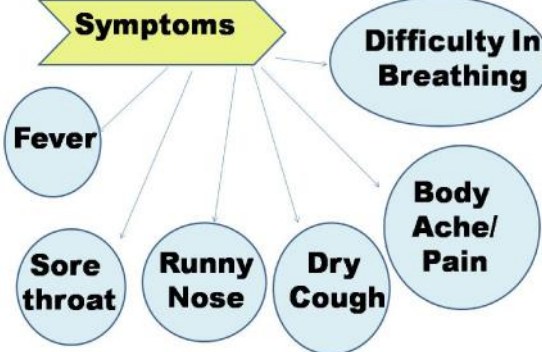
How Coronavirus Spreads

- ✳️ Spreads primarily through person to person
 - Direct contact with an infected person
 - Through cough or sneeze, or droplets of saliva or discharge from the nose of infected person.
- ✳️ Contact with contaminated surfaces or objects.
 - Touching a surface contaminated by the virus and then touching your eyes, mouth or nose with unwashed hands.

How Can I protect myself?

- Wash hands often with soap for 20 secs
- Avoid handshakes, say 'namaste'
- Carry a hand sanitizer with you and use it frequently
- Avoid touching your nose, eyes and mouth with unwashed hands
- Avoid crowds and visiting public places
- Always sneeze or cough into a tissue or napkin

Symptoms



Attention:
Call your doctor if you are sick with...

Fever Cough Breathing problems

Helpline:

Goa: 104
India: 011-23978046

More info:
<https://www.who.int/>

REPORT BY
DR.NANDINI VAZ FERNANDES

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

INTERDISCIPLINARY ACTIVITY – DBT STAR COLLEGE SCHEME

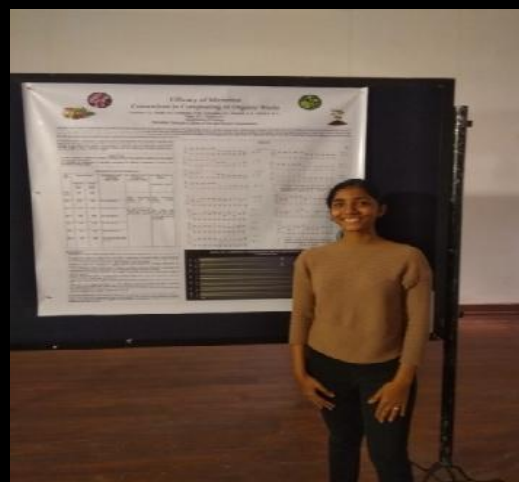
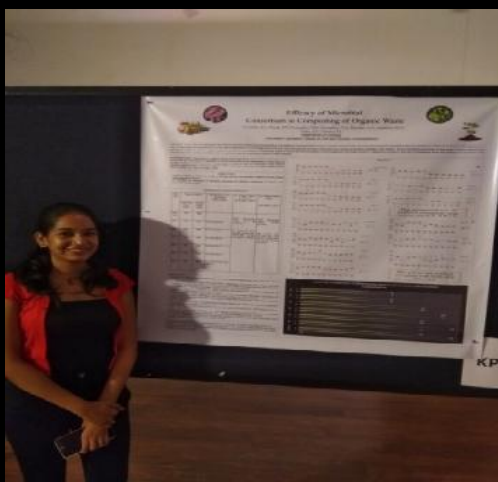
REPORT OF ORGANIC COMPOSTING PROJECT

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**

INTERDISCIPLINARY ACTIVITY – DBT STAR COLLEGE SCHEME

REPORT OF SCI-FAIR-SCIENCE EXHIBITION

Title:	Science Megafest – SCI-FAIR-Science Exhibition
Date and year:	26th February 2020
Venue:	1. College QUAD 2. Physics Lab 3. Botany lab
Organising Committee	DBT Interdisciplinary Activity by 1) Dr. Nandkumar Sawant 2) Dr. Nandini Vaz Fernandes Co-coordinated by: 1) Dr. Lactina Gonsalves 2) Mr. Yatin Desai
No. of Participants	1)294 School students 2) 15 School teachers Community activity - Students 06 Schools
Objective:	To enable school students to understand concepts and fundamentals of science and develop scientific temper and curiosity. This event was especially organised for school students to enable them to understand the concepts of Science by observing the demonstration of the same, by Chowgule college students.

<p>Summary of the proceedings</p>	<p>Day 3: 26th February 2020 - Science Exhibition</p> <p>On the third day of SCIENCE MEGAFEST, the college organised 'SCI-FAIR' – Know your Concepts Science Exhibition'. This event was especially organised for school students to enable them to understand the concepts of Science by observing the demonstration of the same, by Chowgule college students.</p> <p>The students of 06 DBT departments put up 47 Exhibits / Working models to explain concepts in Physics, Chemistry, Computer Science, Biology and Earth Sciences. A total of 294 students and 15 teachers from 06 Schools participated in 'SCI-FAIR'.</p> <p>Exhibits put up by students of Botany, Chemistry, Computer Science, Geology, Geography and Physics were:</p> <ol style="list-style-type: none"> 1. Demonstration of the Brachistochrone problem 2. Representation of Lissajous figures 3. Newton's Cradle 4. Demonstration of Faraday's Law 5. Demonstration of Electromagnet 6. Working of an Electric Motor 7. Demonstration of stereoscopic vision Mirror stereoscopes 8. Anaglyph 3d visualisation -demonstration of aerial photograph using blue and red eye glasses 9. Stereoscopic vision test- Card method 10. Morphological Models - landforms 11. Display of printed satellite images 12. Solar system 13. Concept of Energy 14. Wind Power 15. Bird's eye view 16. Volcano

17. Rainwater harvesting
18. The Magic Blue Bottle
19. Electrolysis of water
20. Litmus paper test
21. Construction of Daniel
22. Water purification tower
23. Separation of substances
24. Electroplating
25. Fire extinguisher
26. Drip irrigation
27. Vertical gardening
28. Electricity generation from potato
29. Respiratory system
30. NO-SUP Awareness
31. Charge Induction in Electrostatics
32. Hologramic Illusion
33. Line Following Robot
34. Doppler effect
35. App for Maths & Science
36. Multimedia- Classroom Discipline
37. Obstacle Avoidance Robot
38. Remote Control of Appliances
39. Control of Lights using voice command
40. Demonstration of Audacity tool
41. Demonstration of Powtoon tool
42. Demonstration of GIMP tool
43. Minerals and Gemstones
44. Igneous rocks
45. Sedimentary rocks
46. Metamorphic rocks
47. Fossils

BROCHURE



Parvatibai Chowgule College of Arts & Science (Autonomous)
Accredited by NAAC with Grade 'A' (CGPA of 3.41 on a 4 point scale)
Best Affiliated College-Goa University, Silver Jubilee Year Award



Organised Under
DBT Star College Scheme,
DBT, Ministry of Science & Technology,
Govt. of India

SCIENCE MEGAFEST

24th – 26th February 2020

DAY 3: 26th FEBRUARY 2020



WELCOME TO "SCI-FAIR"

'KNOW YOUR CONCEPTS' SCIENCE EXHIBITION

Objective: To enable school students to understand the concepts of Science by observing the demonstration of the same by Chowgule college students.

PHOTOGRAPHS

SCIENCE MEGAFEST: Day 3: 26th February 2020

SCI-FAIR- SCIENCE EXHIBITION



**SCIENCE MEGAFEST: Day 3: 26th February 2020
SCI-FAIR- SCIENCE EXHIBITION**



**REPORT BY
DR.NANDINI VAZ FERNANDES**

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

DBT STAR COLLEGE SCHEME ACTIVITY 2019-2020

**INTERDISCIPLINARY PROJECT – HARNESSING SOLAR ENERGY
ACADEMIC YEAR 2019-2020**

Activity:	Interdisciplinary Project on “Installation of Solar Panels and Solar Street Lights to Harness Solar Energy”
Date and year:	2018-2020
Venue:	Parvatibai Chowgule College
Objective:	<ul style="list-style-type: none"> • To enable students to gain the knowledge of a solar cell, calculation of solar PV potential, fabrication of mounting stands and installation of solar panels. • To enable students to gain the knowledge about the DC to AC inverters and solar street light assembly which will in turn enhance their scientific temper and apply the knowledge to be the potential entrepreneurs in the field of solar panel assembly.
Proposed by	1) Dr. Nandkumar Sawant 2) Dr. Nandini Vaz Fernandes
Coordinated and executed By	Mr. Yatin Desai, HOD, Physics
No. of Beneficiaries	Faculty: 1 Students: 9
Sequence of events /Resource person/s:	<ul style="list-style-type: none"> • Identification of locations for solar panel installation on street lights • Measuring the area and calculation of solar PV potential. • Placing the order for required items. • Fabricating mounting stands for solar panels. • Installing the solar panel on roof top of D – block. • Installing DC to AC inverter. • Laying electrical cables from inverter to the respective installations.

- Erecting street light poles and installing LED bulbs assembly on street-light poles.

Summary of the proceedings

The project comprised of two parts, the first part included the installation of solar panels on the rooftop of building block D to utilise solar energy to empower electrical gadgets on the first floor of D-block. The second part of the project included the illumination of road from college main gate to college office using solar street lights.

1. **Installation of solar panels:** The process involved the identification of a suitable shadow-free space on the roof top of D-block. Nine solar panels of each with maximum power of 330 watts were procured. Thus total maximum power that could be generated is 2.97 kilowatts. The metallic frames were fabricated and fixed on the terrace on which the solar panels were installed. The inverter is installed on the adjacent wall near the roof-top which is used to convert DC voltage output to an AC voltage. The inverter output was wired to different installations by electrical cables. The load is distributed as follows:

<u>D - BLOCK, FIRST FLOOR</u>				
<u>Room Number</u>	Entity	Quantity	Starting Load (watts)	Total load (watts)
<u>D201</u>	Tube light	4	36	144
-	Ceiling fan	1	40	40
<u>D202</u>	Tube light	4	36	144
-	Ceiling fan	1	40	40
<u>D203</u>	Tube light	4	36	144
-	Ceiling fan	1	40	40
<u>D204</u>	Tube light	8	36	288
-	Ceiling fan	2	40	80
<u>D205</u>	Tube light	12	36	432
-	Ceiling fan	6	40	240
<u>D207</u>	Tube light	26	36	936
-	Ceiling fan	5	40	200
-			TOTAL	2728

Total Solar PV system size = 2.72 KW

Sunshine period = 7 Hours

Units generated = 19.04 kWh/day

Average electricity cost = 6.05 Rs/kWh

Daily cost saving = 115.192 Rs/day

Monthly cost saving = 3455.00 Rs/month

Yearly cost saving = 41,460.00 Rs/month

Solar PV system cost = Rs. 200000.00

Payback period = 4.8 years

The average life of Solar PV system is 15 – 20 years.

2. Installation of solar street lights:

Objective is to illuminate the road from college main gate to gymnasium. For proper illumination, we proposed to install the solar powered LED lights at every 10 meters. Accordingly six poles were erected from college main gate to college office. Solar street light works on the principle of solar cells. Solar cell absorb solar energy during the day. The solar cell then converts the solar energy into electrical energy which is stored in the battery. During night time street light starts automatically and consumes energy already stored in the battery. Solar street lights are composed of LED lights. LED lights are used since it works on small currents and hence smaller sized solar panels suffice the solar street lights with LEDs. These LEDs work on directly on DC current and hence there is no additional requirement of DC to AC converter unit.

Units composed of solar panels and LED bulbs were procured and assembled. Each unit is also fixed with motion sensors. During the night time if there is a motion near the solar street light as detected by the motion sensor and all LEDs glow 100%. If there is no motion only 33% of LEDs glow resulting in higher backups and energy savings. For effective functioning of the solar street lights, an array of LEDs bulb of 60 Watts giving light intensity of 30 to 40 lux in the vicinity of the electricity pole are installed.

Photographs



SHIELDED ARC WELDING OF THE FRAME



THE STANDS USED FOR SUPPORTING THE SOLAR PANELS

MOUNTED SOLAR PANELS





PANEL FOR SOLAR STREET LIGHT MOUNTED ON THE POLE AND ITS ILLUMINATION
DURING NIGHT



**REPORT BY:
MR. YATIN P. DESAI**

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

INTERDISCIPLINARY ACTIVITY – DBT STAR COLLEGE SCHEME

REPORT OF SESSION ON ARTIFICIAL INTELLIGENCE

Title:	Science Megafest – Artificial Intelligence
Date and year:	24 th February 2020
Venue:	1) Auditorium 2) AV Room
Organized by:	Interdisciplinary DBT activity organised by 1) Dr. Nandkumar Sawant 2) Dr. Nandini Vaz Fernandes
Resource person/s:	1) Mr. Gajanan Nial 2) Mr. Mahesh Matha Venue Coordinators: Mr. Andrew Barreto Mr. Abishek Gude
No. of Participants	164 students (Students of Arts and Science)
Objective:	The objective of the programme was to create awareness on Artificial Intelligence and understanding it in context of its integration in our lives now, and in future.
Summary of the proceedings	Interdisciplinary event ‘Science Megafest’ was organized by the Chairman and Overall College Coordinator of DBT Star College Scheme, from 24th to 26th February 2020. This interdisciplinary three day fest was planned with specific objectives of promoting Science amongst the student community. Day 1: 24th February 2020 – Session on ‘Artificial Intelligence’

This event was organized for all students of Parvatibai Chowgule College. The objective of the programme was to create awareness on Artificial Intelligence and understanding it in context of its integration in our lives now, and in future. The event started with introductory talk on 'Artificial Intelligence' by Mr. Mahesh Matha and Mr. Gajanan Nial. The event was hosted by Mr. Andrew Barreto and Mr. Abhishek Gudekar at the auditorium/AV room of CTL. The talk was followed by screening of movie depicting aspects of Artificial intelligence in entertainment/commercial sector, just to highlight that what seemed to be science fiction then, has become reality today and AI may play further greater role in future. The event was attended by 164 students and teachers

BROCHURE



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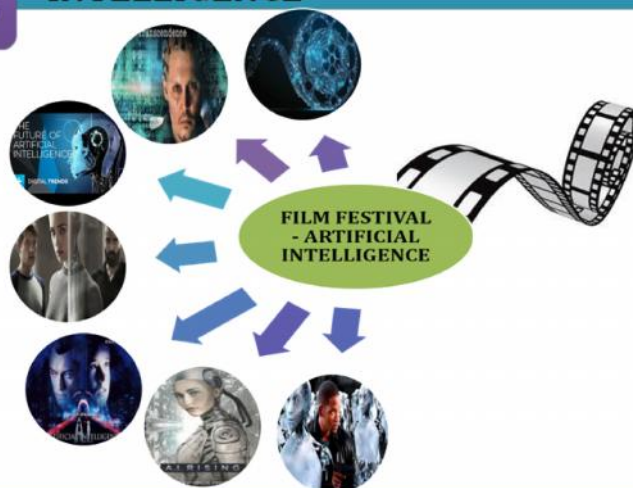
Organised Under
 DBT Star College Scheme,
 DBT, Ministry of Science & Technology,
 Govt. of India

SCIENCE MEGAFEST
 24th – 26th February 2020

DAY 1: 24th FEBRUARY 2020
"AWARENESS ON ARTIFICIAL INTELLIGENCE"

SCREENING OF MOVIES ON
"ARTIFICIAL INTELLIGENCE"
 VENUE: AUDITORIUM (U&L)
 TIME: 12.00 - 2.30PM
 ALL ARE WELCOME

OBJECTIVE: To Create awareness on 'Artificial Intelligence' and understand it in context of its integration in our lives now, and in future.



PHOTOGRAPHS



**SCIENCE MEGAFEST: Day 1: 24th February 2020
Theme 'Artificial Intelligence'**



**REPORT BY
DR.NANDINI VAZ FERNANDES**