



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)

2018-2019

Sr.no	Name of the activity	Organising unit/ agency/ collaborating agency	No. of Students/ Participants
1	Parvatibai Chowgule College NGO:- CHETNA CHARITABLE TRUST, Curchorem - Goa. Phone: 9822 9822 22	Department of Chemistry and community	30
2	Parvatibai Chowgule College Community : Specially abled Children	Department of Chemistry and community -Stimulus – Interschool competition for special kids	20
3	CAI-Software tools designed for children with Autism and/or mental retardation	Department of Computer Science - Keshav Seva Sadhana School for special children,Bicholom	10
4	Techweek 2018	Department of Computer Science under DBT Star College Scheme	98
5	Technobit 2018	Department of Computer Science under DBT Star College Scheme	50
6	Irix 2018	Department of Computer Science under DBT Star College Scheme	99
7	NDD and MOP up day	Department of Zoology and Margao Urban health Centre, Directorate of Health Science, Govt. of Goa	5
8	Importance of physcial health	Department of Zoology and local community	35
9	Awareness on blood donation	Department of Zoology and local community	35
10	Kitchen waste management	Department of Zoology and local community	35
11	Awareness programme on vitamin D deficiency	Department of Zoology and local community	35
12	Awareness on nutritional requirement for children	Department of Zoology and local community	35
13	Garbage segregation	Department of Zoology and local community	35
14	Beach cleanup	Department of Zoology and local community	35
15	Awareness on Renal diseases	Department of Zoology and local community	35
16	Monitoring national Deworming day : Administering of deworming tablets	Directorate of heath and science ,Urban heath centre Margao	55
17	Awareness programme on Skin Health Care	Indian Associateion of Dermatologists, venerologists and Leprologists, Goa State Branch	55
18	Industry academia lecture series	Department of Zoology and Mangrove Society of India (MSI)	150
19	CBC lecture series	Department of Zoology and Goa Bird Conservation Network	100

20	Campus Bird Count	Cornell Lab of Ornithology & The National Audubon Society	20
21	National conference on "Innovation in Life Sciences for sustainable development"	Department of Zoology and Biotechnology	13
22	International Biodiversity Day	The Society for Environment and Biodiversity Conservation (SEBC)	2
23	Wildlife Census	Department of Zoology and Goa Forest Department (Wildlife and Ecotourism)	5
24	Bird Walk by CBC	Department of Zoology ae Maina Curtorim	20
25	Field Trip - Wildlife Sanctuary	Department of Zoology -Bhagwan Mahavir Wildlife sanctuary	70
26	Field Trip - Fish Landing Site	Department of Zoology -Fish landing site , betul Goa	80
27	Field Trip - Wildlife Sanctuary	Department of Zoology -Bhagwan Mahavir Wildlife sanctuary	70
28	A visit to senior citizens of Provedoria Old Age Home, Margao	NSS unit in association with Provedoria Old Age Home, Margao	52
29	Parvatibai Vachan Mandir: A programme for the senior citizens from Provedoria old age home	NSS unit in association with Provedoria Old Age Home, Margao	102
30	Senior citizens from Provedoria Old Age Home invited for the Flag hoisting ceremony on 26th January 2019 (Republic day) in college	NSS unit in association with Provedoria Old Age Home, Margao	146
31	A street play for the senior citizens from Provedoria Old Age Home, Margao	NSS unit in association with Provedoria Old Age Home, Margao	29
32	Blood donation camp	NSS unit in association with Indian Red Cross Society,	39
33	Shramadan (cleaning) and repairing the play ground at adopted village panchayat, Rumdamol-Davorlim	NSS unit in association with adopted village panchayat, Rumdamol-Davorlim, margao-Goa	55
34	Shramdaan in college campus	NSS unit	115
35	"Prabhaat Feri" - rally on cleanliness	NSS unit	97
36	Awareness rally on "Enrolment of People on the Electoral Roll"	NSS unit in association with adopted village panchayat, Rumdamol-Davorlim, margao-Goa	33
37	E-Waste Collection Drive	NSS unit	14
38	An awareness rally against "Plastics"	NSS unit	120
39	An awareness rally against "open defecation"	NSS unit	120

40	Cleaning in College campus	NSS unit	17
41	Cleaning in front of college canteen area	NSS unit	26
42	Cleaning in front of college canteen area	NSS unit	65
43	Cleaning in two wheeler parking area of college campus	NSS unit	37
44	Tiger Activity Centre area beautification in college campus	NSS unit	2
45	Cleaning in two wheeler parking area of college campus	NSS unit	55
46	Tiger Activity Centre area beautification in college campus	NSS unit	3
47	Western regional seminar on 'Frontiers and Innovations in Plant Science'	Department of Botany in collaboration with DST, Department of Tourism,	80
48	Two day workshop on Techniques in Plant Genetic diversity and conservation	Department of Botany under DBT star college scheme	22
49	Oyster mushroom cultivation workshop	Department of Botany under DBT star college scheme	25
50	Green Bazaar and Agri expo	Department of Botany under DBT star college scheme	
51	The Bard by the Mandovi – Shakespeare Festival	Dept of English	200
52	Cosfest Goa 2018	Dept of English	55
53	Certificate course in Coloured Gemstone Testing	Department of Geology	7
54	Energy Audit	Parvatibai Chowgule College in collaboration with Shubhankar Environmental Services	6
55	Sociofiesta: Extension Activity	Department of Sociology and All Colleges of Goa	45
56	Goenkarponn: Extension Activity	Department of Sociology and All Higher Secondary Schools of Goa	96
57	Emerging Trends in Sociology: Extension Activity	Department of Sociology	9
58	Visits to Provedoria: Old Age Home	Department of sociology-CLUB HUMAN	45
59	Visits to Asilo: Old Age Home	Department of sociology-CLUB HUMAN	50
60	Visit to Valentina's Little Heaven Orphanage	Department of sociology-CLUB HUMAN	45
61	Education to the needy children-Margao-Inox	Department of sociology-CLUB HUMAN	25
62	Education to the needy children-Moti Dongor Slum Area	Department of sociology-CLUB HUMAN	25



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<u>REPORT OF EXTENSION ACTIVITY</u>	
Title:	'Fun Chemistry Workshop for special kids'
Date and year:	10 TH AUGUST 2018
Venue:	CHETANA EDUCATIONAL TRUST'S SCHOOL CUM REHABILITATION CENTRE FOR SPECIAL CHILDREN, CURCHOREM GOA
Resource person/s:	Mr.NimayKamat (TYBSc student of Chemistry Department) Mr.ShubhamGaude(TYBSc student of Chemistry Department)
Organising Committee	Dr.Manjita R. Porob Mrs. Padmini C. Raiker Mr. Anurag M. Naik
No. of Participants	30 Special Kids
Objective:	The objective of the activity was to give Special students an exposure to the fascinating world of chemistry ,to build a scientific temperament amongst them, to interact with them and make them feel that they are also normal human beings.
Summary and proceedings	<p>The department of Chemistry of ParvatibaiChowgule college conducted a workshop entitled 'Fun with Chemistry' for the specially abled students of Chetana Educational trust's Schoolcum rehabilitation centre, Curchorem Goa on 10/8/18 . The objective of the activity was to give such students an exposure to the fascinating world of chemistry and to interact with them. Three faculty of our department, Dr.ManjitaPorob, Mrs. PadminiRaiker and Mr. AnuragNaik along with the 2 students of TYBSc Chemistry, Mr. NimayKamat and Mr. ShubhamGaude designed a fun chemistry module for the specially abled children. We had designed and tested 7 such experiments for the kids which would appear magical due to the involved chemical reactions. To begin with the workshop, We showed those students a cartoon animated movie on Pollution , how to curb it and also explained it to them. The students were also informed about the importance of chemistry in our lives. Our students then performed the experiments and also gave an opportunity to those kids to perform the same under our strict supervision which took their happiness out of the boundaries.</p> <p>The school has around 80 students but due to their health issues around 30 students attended our session. But as a gesture of charity we personally met all the kids and distributed refreshments and juices as a token of love.</p>

PHOTOGRAPHS



Demonstrated Magic Experiment



Group Photo with Special Kids



Special Kids performing Experiment



T.Y.B.Sc Students demonstrating chemistry experiment



Nimay Kamat giving talk on " Stop Use of Plastic – Save Earth"



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REPORT OF EXTENSION ACTIVITY

Title:	Stimulus – Interschool competition for special kids
Date and year:	24 th August 2019
Venue:	Parvatibai Chowgule College of Arts and Science, Autonomous Upper Auditorium
Resource person/s:	-----
Organising Committee	Dr. Manjita R. Porob Ms. Padmini C. Raiker
No. of Participants	20 special kids of invited schools and 5 teachers of special schools
Objective:	The objective of this Event was to give a stage for all the special kids to showcase their talent such that they feel themselves to be a normal part of our society. The idea behind the programme was also to inculcate inspiration and motivation amongst our department students and also to develop an emotional feeling for them towards such kids.
Summary and proceedings	<p>The department organized Stimulus- Interschool event for special kids of 3 invited schools on 24/8/19. The event was conceptualized by the Head of the department, Dr. Manjita R. Porob and she received immense support from the coordinator Padmini Raikar and the students of TYBSc. Few students of FY and SY also enthusiastically supported the event. Dr. Nandakumar Sawant and Shri. Harish Nadkarni graced the event as Chief guest for the Inaugural and Valedictory ceremonies respectively.</p> <p>The event started with traditional lighting of lamp and inspirational speeches from the chief guest and H.O.D cum convener of the event. Ms. Padmini Raikar also briefly explained the motive behind such innovative event.</p> <p>The TYBSc students marked the event by giving an animated talk on save water and save life followed by a beautiful and emotional Hindi dance which marked a welcome to all those kids. Various competitions such as duet dance, fancy dress, wealth out of waste and painting were organized. Department also organized display and sale of the items prepared by such students. There was a cake cutting ceremony organized to commemorate their talent. Shri Harish Nadkarni gave away the prizes. The event ended by much awaited campus walk organized for such students.</p> <p>Refreshments and drinks were sponsored to all those kids and other guests by Manjita Porob and Padmini Raikar. The Physics department of the college also graced the event and gave return gifts to all those special kids.</p>

PHOTOGRAPHS



Teachers with Specially abled Child



Ms. Navita Naik welcoming the Chief Guest
Dr. Nandkumar Sawant



Special Kids performing experiment



Cake Cutting ceremony for the special kids



Group Photo of special Kids with our Students



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REPORT ON KESHAV SEVA SADHANA SCHOOL FOR SPECIAL CHILDREN

Title:	Keshav Seva Sadhana School for special children
Date and year:	1 st November 2018
Venue:	Bicholim
Resource person/s:	Mrs. Neeta Dhopeshwarkar
No. of Participants	10
Objective:	A demo on CAI-Software tools she had designed for children with Autism and/or mental retardation





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<u>REPORT ON TECHWEEK 2018</u>	
Title:	TechWeek 2018
Date and year:	27 th Aug to 1 st Sep 2018
Venue:	Lower Auditorium, Parvatibai Chowgule College of Arts & Science
Resource person/s:	Mr. Chetan Borkar Senior Software Engineer and Founder of Dreamlogic Infosystem, Mr. Vishal Kerkar, Software Engineer from Accion labs and Mr. Sedrick Pires, Web Developer from Numedic
No. of Participants	Department of Computer Science under DBT Star college scheme
Objective:	98
Summary of the proceedings	Main aim of this one week hands-on training programme was to make students familiar with the latest technologies. Students were trained for following Technologies CodeIgnitor, Python& Django and Vue.js
Photographs	Department of Computer Science organized “Techweek 2018 ” under DBT Star college scheme from 27th August 2018 to 1 st September 2018 for faculties and students of Department of computer science. (M.Sc IT & TY. BSc students). Industry experts were invited to give a hands-on session on current topics from IT field. Mr. Chetan Borkar(Senior Software Engineer and Founder of Dreamlogic Infosystem) delivered a hands-on session on “CodeIgniter-MVC Framework”. Mr.VishalKerkar, Software Engineer from Accion labs gave a hands-on session on “Python and Django”. Mr.Sedrick Pires, Web Developer from Numedic delivered a hands-on session on “Vue Js”. Mrs. Suchitra Bhat, Associate Professor and department co-ordinator for DBT Star college scheme and Mr Abhishek Gudekar , Assistant Professor ,were the co-ordinators for Techweek 2018. This programme was conducted as a part of DBT Star college Scheme programme






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REPORT ON TechnoBit 2018

Title:	TechnoBit 2018
Date and year:	31st January 2018
Venue:	Upper Auditorium
Resource person/s:	-
No. of Participants	4 higher secondary schools (50 students)
Objective:	Gave lot of exposure to students for organizing state level event and helped in promoting new course B.Voc to the higher secondary students.
Summary of the proceedings	This event gave lot of exposure to the First Year B.Voc(Software Development) students by organising such a state level event. This event was also used to promote the B.Voc(Software Development) course to the higher secondary students of various schools.
Photographs	



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REPORT ON I-RIX 2018 (Intercollegiate Technical Festival)

Title:	I-RIX 2018
Date and year:	11 th December 2018
Venue:	Upper Auditorium
No. of Participants	Eight colleges from Goa (90 students)
Objective:	It is a platform to express views and showcase talents of the participants in different fields
Summary of the proceedings	Various competitions such as Tech-Players Battleground, Graphically, Know it All, Iconic, Code it all, Get Set Web, Eureka, Master of Muster, Shoppers Stop etc. were held to test the knowledge, technical as well as non-technical skills of the participants.





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DEPARTMENT OF ZOOLOGY

COMMUNITY OUTREACH ACTIVITIES BY DEPARTMENT OF ZOOLOGY:2018-2019

- i) **National Deworming Day:** 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-25th February 2019. The supervision was repeated on 5th 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.



- ii) **Awareness Programme:** The Indian Association of Dermatologists, Venerologists and Leprologists, Goa State branch organized 'Skin Safar Rath' a Public awareness programme to create awareness amongst people on skin health care. A vehicle with LED display of educational videos, pamphlets, books and educational material was put up near the butterfly garden on 08th January, 2019 between 12.00 pm to 3.30 pm. Around 55 students and staff visited the exhibition.

- iii) **Community outreach activities by Zoology Department:** As a social responsibility, the Head of the department Dr. Nandini Fernandes, requested all TYBSc

Zoology students to carry out community outreach activities. Under the guidance of Ms. Andrea D'Souza, Ms. Madhu Balekai, Ms. Tessa Vaz, Ms. Gautami Manakikar, Mr. Stephen Dias and Ms. Ruella Dias, 35 TYBSC students of Zoology department conducted awareness programmes from 6th – 10th April 2019.

- a. **Kitchen Waste Management and Composting:** Community outreach program on kitchen waste management was conducted in and around Margao, namely Kavlem, Navelim, Cansaulim and Paigin. The aim of the programme was to spread awareness about segregation and composting of kitchen waste from households. A Total of 60 houses were a part of this activity.



- b. **MOTIVATION FOR BLOOD DONATION:** Community outreach programme on motivation for blood donation was conducted in and around Margao namely, Kavlem, Navelim, Cansaulim, Seraulim. The aim of the program was to spread awareness about blood donation and motivate people to donate blood.



- c. **IMPORTANCE OF PHYSICAL ACTIVITY:** The main aim was to bring about awareness on “Importance of Physical Activity” among the people in the locality of Gogol and Margao.



- d. **AWARENESS ON VITAMIN D DEFICIENCY:** Deficiency of vitamin D can lead to serious health issues. In order to make people aware about the vitamin D deficiency, 50 houses of Gogol were selected to spread awareness on the same. List of food items and source of vitamin D was given to member of each house.



- e. **AWARENESS ON NUTRITION REQUIREMENT OF CHILDREN:** To create awareness on 'Nutrition Requirement in Children' an awareness programme was conducted for 50 houses in Raia and Gogol. Chart of nutrition requirement according to age and sex was given to each house.



- f. **WASTE SEGREGATION AND COLLECTION:** This programme was conducted to create awareness on the aspects of waste management, segregation, recycling and composting. A total of 50 houses in Margao, Raia, Assolna, Cortalim and Vasco benefitted from this programme.



- g. **SANITARY HYGIENE:** To create awareness on the aspects of sanitary hygiene and menstrual health, 50 houses in Borda, Gogol, Nuvem, Raia, Paroda, Shiroda, Cuncolim, Assolna, Quepem, Colva and Vasco were considered for the programme. Subjects were made aware of the various aspects of menstruation and care to be taken during menstruation.
- h. **AWARENESS ON RENAL DISEASES:** There have been a lot of cases of renal problems arising in the state of Goa. Therefore, a renal diseases awareness survey was conducted in Fatorda, Navelim, Cuncolim, Gogol area. They were also made aware about the different types of tests to be done to check if there are any kidney problems.
- i. **BEACH CLEANUP:** Colva, Benaulim and Hollant beach cleanup was done to create awareness among the locals to keep the beaches clean. Cleaning up beaches could boost local economies in addition to preserving natural treasures and animal habitats, researchers say



By
Dr. Nandini Vaz Fernandes
HOD, Zoology.



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REPORT OF INDUSTRY ACADEMIA LECTURE SERIES - MANGROVES

Title:	Industry Academia lecture Series - Mangroves
Date and year:	30 th July 2018
Venue:	Auditorium
Resource person/s:	Lecture Series: Dr.Untawale, Dr.Dhargalkar, Dr.SayeedaWafar Mr. DevanandKavalekar
Organising Committee	<ol style="list-style-type: none">1. Dr. Nandkumar Sawant (Chairman DBT Star College Scheme)2. Dr. Nandini Vaz Fernandes (HOD, Zoology & College coordinator DBT Star College Scheme)3. Ms. Madhu Balekai4. Ms. Tessa Vaz5. Ms. Andrea D'souza6. Mr. Stephen Dias7. Ms. GautamiManakikar
No. of Participants	150
Objective:	To organize joint activities in research, training, community outreach, co-curricular and extra - curricular areas and enable students to carry out internships.
Summary of the proceedings	<p>The Department of Zoology of Parvatibai Chowgule college of Arts and Science (Autonomous), in association with 'Mangrove Society of India' (MSI) organized Lecture series on 'Mangrove ecosystem' on 30th July 2018. The department of Zoology had organized painting and photography competitions on 26th July to commemorate the 'World mangrove day'. As a continuation of the celebration the lecture series were organized on 30th July 2018.</p> <p>The chief guest of the function was Dr. Pradeep Sarmokadam, member secretary of Goa State Biodiversity board. The function was held in the auditorium of</p>

Chowgule College and was attended by the faculty and students of botany, geography and zoology. Principal Dr. Nandkumar Sawant welcomed the chief guest with memento and flowers and said that we look forward to bring about societal awareness in terms of conservation. Dr. Sarmokadam addressed the faculty and students and said that young students should be venturing into applied biodiversity research, the outcome of which can be used to address the issues faced by our state and nation as a whole. He also appreciated the role of Chowgule College in formulation of 'Biodiversity Heritage site' document for Curtorim panchayat and its role as 'Technical Support group' for the preparation of 'People's Biodiversity register" by team of faculty of Chowgule College.

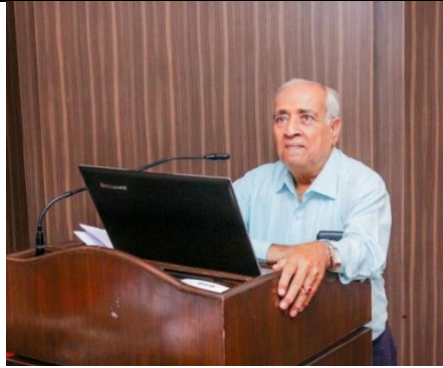
"The speakers lecture series were specially selected to create awareness about the importance of mangroves and the uniqueness of floral and faunal diversity in mangrove ecosystem" said Dr. Nandini Vaz Fernandes, Head of the department of Zoology.

The speakers were scientist/former scientist of National Institute of Oceanography (NIO) Dona Paula and current members of Mangrove society of India. Dr. Untawale, executive secretary of MSI, spoke on "Coastal ecosystem of Goa" where he stressed on the different aspects of the ecology of mangoves and wetlands in Goa. He talked about the species of mangrove plants and their ecological adaptations and the role of these mangrones in protection of the Goan coast.

Dr. V Dhargalkar, joint secretary of MSI spoke on "Mangrove fauna" and described the uniqueness of the micro, meso and mega fauna of the mangrove ecosystem. He explained the relationship of all the plants and animals including humans in the food web of mangrove ecosystem.

Dr. Sayeeda Wafar spoke on "Mangrove productivity and Mr. D Kavlekar scientist at NIO spoke on 'Mangrove bioinformatics'. The MSI also put up exhibits of the mangrove flora, fauna, uses and threats in the 'Mangrove exhibit' gallery held in the quad of Chowgule College. The photographs and paintings done by the zoology students on the theme 'Mangrove fauna' was also exhibited in the gallery.

Photographs



Dr. Untavale, Executive Member secretary of MSI



Figure 1 :Principal Dr. Nandkumar Sawant welcoming the Chief Guest Dr. Pradeep Sarmokadam for the Lecture Series Function



Figure 2: Chief Guest Dr. Pradeep Sarmokadam addressing the Lecture Series function





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<u>REPORT OF 'CBC COUNCIL INAUGURAL AND LECTURE SERIES'</u>	
Title:	CBC council inaugural and lecture series
Date and year:	13 th August 2018
Venue:	U- auditorium, ParvatibaiChowgule College of Arts and Science
Resource person/s:	1)Ms. Marvelyn Dias 2)Mr. Pankaj Lad
Organising Committee	Zoology Departmental Faculty
No. of Participants	100
Objective:	To acquaint the students with the rich diversity of birds in Goa and the importance of bird research
Summary of the proceedings	<p>Inaugural session: Ms. Andrea D'souza welcomed the gathering with a brief about the Chowgule's birders club which was started in 2014. HOD , Dr. Nandini Vaz Fernandes welcomed the guests and the vice principal with flowers and briefed the audience about the events of the day.</p> <p>The lecture series consisted of lectures by the guest speakers and a brief presentation on birding etiquettes by Dr.NandiniVaz Fernandes</p> <p><u>Lecture 1:</u> Ms. Marvelyn Dias, an ornithologist and a proactive bird conversationalist who worked as a Secretary of the Goa Bird Conservation Network (GBCN). Her lecture on "Falling in love with birds" was based on her experience of getting into birding. She proved to be a motivation for young birders</p> <p><u>Lecture 2:</u>The second speaker Mr. Pankaj Lad spoke on "How do bird's Communicate", where he discussed and demonstrated the way birds communicates with the help of their song. He played different calls and songs of birds and helped students identify them based on their sound.</p> <p><u>Lecture 3:</u>Dr. Nandini Vaz Fernandes, gave lecture on 'Birding and Birding etiquettes'. It was very informative for the young birders as the speaker stressed on the different etiquettes of birding as it is a pre-requisite for any birder pursuing birding.</p> <p>This lecture series was followed by introduction of coordinators of the club, Mr</p>

AbhirajSinh Bhatti and Miss Ruta Tushar Sawant Talaulikar, both from SYBSc. They displayed the schedule of all the activities planned the whole year. To conclude Ms. Madhu gave the vote of thanks to the committee, guests and all the students gathered for the lecture series. The programme with registration for the birders club which is open to all the faculty and students of Chowgule's college.

Photographs





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<u>REPORT OF 'CAMPUS BIRD COUNT'</u>	
Title:	CAMPUS BIRD COUNT
Date and year:	16 th to 18 th February 2019
Venue:	Chowgule College Campus
Resource person/s:	CBC members
Organising Committee	Cornell Lab of Ornithology & The National Audubon Society
No. of Participants	20
Objective:	To document all the species of birds present in the Chowgule College campus.
Summary of the proceedings	<p>The Chowgule Birder's Club (CBC) participated in the Campus Bird Count 2019 from 16th to 18th February 2019. The Campus Bird Count is an offshoot of the global Great Backyard Bird Count. The FYBSc and SYBSc students participated in the effort to document all the species of birds present in the Chowgule College campus. The counts were held during morning and evening surveys. Each survey consisted of the following:</p> <ol style="list-style-type: none">1. A transect that covered the entire campus was predetermined.2. A 15-minute stationary count, also called as a point count was carried out.3. Such point counts were repeated along the entire pre-determined transect in-order to cover the entire campus.4. Surveys were held continuously for three days. <p>A total of 36 birds were recorded in the campus. The total bird species count of the campus now stands at 67. Information on the bird species found in the college campus is available on www.ebird.org</p>
Photographs	





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<u>REPORT OF 'INTERNATIONAL BIODIVERSITY DAY'</u> <u>ATTENDED BY STUDENTS</u>	
Title:	International Biodiversity Day
Date and year:	22 nd May 2018
Venue:	International Centre Goa, Dona Paula.
Organising Committee	The Society for Environment and Biodiversity Conservation (SEBC) and The International Centre Goa in collaboration with The Himalaya Drug company (Bengaluru).
No. of Student Participants	Melita Pereira Jewella Pires
Objective:	To create awareness on 'Save Biodiversity- Rich Western Ghats
Summary of the proceedings	Two of our SYBSc students, Melita Pereira and Jewella Pires participated in a one-day workshop to celebrate "International biodiversity day ". The theme for the same was - ' Save Biodiversity - Rich Western Ghats'. The event began with a Nature trail followed by an inaugural function of the photography exhibition of " biodiversity of Western Ghats ", Medicinal plant Exhibition and Wild Edible Fruits Exhibition. This was followed by lecture series by various speakers on 'Exploration of Biodiversity'. A film was also shown on biodiversity and sustainable development. Followed by an interactive session. Ending the day with a Valedictory function with certificate and hamper distribution by The Himalaya Drug company (Bengaluru).

Photographs





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REPORT OF ' WILDLIFE CENSUS' – PARTICIPATION BY STUDENTS

Title:	Wildlife Census 2018
Date and year:	1 st May 2018 to 6 th May 2018
Venue:	Netravali wildlife sanctuary and Cotigao wildlife sanctuary
Resource person/s:	Goa Forest Department
Organising Committee	Wildlife and Ecotourism
No. of Participants	04 students from department of zoology 01 student from department of economics
Objective:	To estimate the 'India tiger' count and to acquaint students with the techniques of field data collection.
Summary of the proceedings	It included a walk of 5 to 7 km, with a group of 4 people viz, a Forest guard, a labour, and volunteers in the forested area to observe evidences for these species. Volunteering to this survey gave a unique experience of field data collection of the carnivores & mega herbivores, their pellets, its habitat quality and human disturbances in the allotted forested areas. It was a great platform for the students to interact with forest guards and other forest officers.

Photographs





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REPORT OF ' CHOWGULE'S BIRDERS CLUB BIRD WALK

Title:	Chowgule's Birders Club Bird walk
Date and year:	17 th August 2018
Venue:	Maina- Curtorim, Goa
Resource person/s:	CBC coordinators and members
Organising Committee	Chowgule Birders Club
No. of Participants	20
Objective:	The students were introduced to birding in the field and bird survey methodology
Summary of the proceedings	<p>The Chowgule's Birder's Club organized its first bird walk for the academic year 2018-19 on 17th August 2018 at Maina-Curtorim, Goa. The walk was for about 1km. About 20 students attended this bird walk under the guidance of Sir Stephen Dias and Mr. Joshua. Some of the birds that were identified are listed below:</p> <p>1)Brahminy kite– Medium sized raptor with white head and breast. Body is chestnut brown. The very tip of the tail is white. Wings are broad and the tail is short. Legs are short and not feathered. Beak is lemon yellow in colour.</p> <p>2)Red - Whiskered Bulbul – It has a pointed black crest, white cheeks, brown back reddish under tail coverts a long white tipped tail. The red whisker mark from which it gets its name.</p> <p>3)Lesser Whistling Duck– A medium sized duck, orange brown in colour with scaly pattern on back, large head, thin neck and long legs. In flight the large rounded wings look black below and distinct maroon patches are visible on the forewings and rump.</p> <p>4)Cormorant– Medium to large birds. Have dark feathers. Have narrow, long and hooked beak. The skin on the face can vary in colour from blue to red to orange.</p> <p>5)Peafowl– It is a large and brightly coloured bird. It is prominently blue with a</p>

	<p>fan like crest of spatula tipped wire like feathers. Has a long train made up of elongated upper tail covert with colourful eye spots.</p> <p>6)Jungle mynah– It is a grey-brownish bird with a tuft of feathers forming a small crest on the forehead and the base of the tail. It has a black head with the upper area being more grey-brown. Chin, breast and belly dark ashey grey.</p> <p>7)White Throated Kingfisher – they have thick, reddish orange bills, red legs, and dark chocolate coloured heads, bellies, and shoulders. A brilliant white patch can be found on the throat. The wings and tail are bright blue with white patches on the primaries and the black distal tips.</p> <p>8)Rock Pigeon– it has a dark bluish grey head, neck, and chest with glossy yellowish, greenish and reddish purple iridescence along its neck and wing feathers. The iris is orange red or golden with a paler inner ring. The bill is grey-black with a conspicuous off white crest, and the feet are purplish red.</p> <p>9)Wire Tail Swallow– a very distinctive swallow with two long, thin feathers, on its outer tail from which it gets its name. It has brilliant glossy blue upperparts and a chestnut forehead and crown that contrasts with clean white under parts.</p> <p>10)Purple Heron– large heron with rusty head and streaky neck. Has purple brown plumage with slate grey wings, reddish brown breast, black belly and reddish-purple flanks and scapulars.</p> <p>11)Green Bee – Eater- A small dainty bee eater that is intensely green overall with a greenish blue throat, a thin black throat band, and long central tail feathers. Flies gracefully as it catches insects and other prey.</p> <p>12)Ashy Prinia– It is a small warbler. It has a black bill, pale cinnamon underparts, a gray head, and a greyish brown back. Nonbreeding birds acquire a short eyebrow and a longer tail.</p> <p>13)Common Kingfisher– small and often shy, and inconspicuous. Has turquoise green upperparts with brighter turquoise rump. Tail is blue. Wings are darker blue, finely spotted with turquoise on greater coverts. The underparts are rufous orange slightly darker on flanks. On the head crown and maler stripe are blue, finely spotted with paler blue and black.</p> <p>14)White Rumped Munia– Has a stubby grey bill and a long black pointed tail. The adults are brown above and on the breast and lighter below. The rump is white. Males have more bulky head and bill.</p> <p>15)Red Wattled Lapwing- A distinctively marked lapwing with a black breast, throat and a red bill with a black tip. It also sports red wattles in front of the eyes and a white patch that runs down the cheeks to the underpart.</p>
Photographs	





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<u>REPORT OF ' FIELD TRIP FOR FYBSc AND TYBSc</u>	
Title:	Field trip for FYBSc and TYBSc
Date and year:	9 th September 2018
Venue:	Bhagwan Mahaveer Wildlife Sanctuary, Mollem, Goa
Resource person/s:	Ms. Madhu P. Balekai Ms. Tessa Vaz Ms. Andrea D'Souza Ms. GautamiManakikar Mr. Stephen Dias
Organising Committee	Ms. Tessa Vaz Mr. Stephen Dias Ms. GautamiManakikar Ms. Andrea D'Souza Ms. Madhu P. Balekai
No. of Participants	70
Objective:	To acquaint the students with the rich diversity of flora and fauna present in Goa's protected areas.
Summary of the proceedings	<p>The department of zoology organized a local field trip for FYBSc and TYBSc students along with Miss Madhu P Balekai, Miss Tessa Vaz, Miss Andrea D'Souza, Miss GautamiManakikar and Mr Stephen Dias.</p> <p>A 3 km transect was covered by the group in the protected area. The students were exposed to the biodiversity that can be found in the western ghats during the monsoon season. The primary goal of the field trip was to aid in identification of invertebrates and vertebrates in the field. This was viable since the monsoon season is the best time of the year for students to observe small organisms such as invertebrates, amphibians and reptiles.</p> <p>In addition, the students were trained on several aspects of biodiversity such as:</p> <ol style="list-style-type: none">1. Identification of invertebrates

2. Invertebrate sampling methodologies

The students were later assessed based on individual reports were submitted.

The organisms that were observed during the field trip:

1. Invertebrates:

- Spiders: 06 species
- Butterflies: 12 species
- Millipedes: 01 species
- Centipedes: 01 species
- Dragonflies: 06 species
- Damselflies: 02 species
- Leaches: 1 species
- Earthworms: 1 species

2. Vertebrates:

- Birds (23 species)
- Mammals (02 species)
- Reptiles (04 species)
- Amphibians (05 species)

In addition, to the aforementioned species, several indirect signs of birds and mammals were observed in the park such as:

- Leopard Scat
- Porcupine droppings
- Deer droppings
- Fish owl pellet
- Hoof marks of Gaur and deer

Pugmarks of leopard and Golden Jackals

Photographs





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<u>REPORT OF FIELD TRIP FOR FYBSc AND TYBSc</u>	
Title:	Field trip for FYBSc and TYBSc
Date and year:	17 th February 2019
Venue:	Fish landing site, Betul, Goa
Resource person/s:	Local Fishermen
Organising Committee	Ms. Andrea D'Souza Ms. Tessa Vaz Ms. GautamiManakikar
No. of Participants	80
Objective:	To acquaint the students with: 1. Various fishing crafts and gears used by the fishermen 2. Fish species landed at the site.
Summary of the proceedings	<p>FYBSc and TYBSc students visited a fish landing site in Betul, Goa. Faculty members Ms. Andrea D'Souza, Ms. Tessa Vaz and Ms. GautamiManakikar accompanied the students to the field site. The primary goal of the field visit was to aid in the student' understanding of the various crafts and gears used in fishing technologies in the marine fishery sector of Goa. The use of crafts and gears in fishing technology plays very important role and help enhancing the production commercial bases. The success of fishing largely depends on to how and which types of nets are used to capture the fish.</p> <p>A local guide delivered an on-field lecture to the students. He explained the students, the different crafts and gears used to successfully harvest fish resources from the sea. The following important aspects were explained:</p> <ul style="list-style-type: none">• Type of nets used for fishing: The students were explained about the various types of fishing nets used in Goa; and the commonly used net employed by fishermen operated trawlers.• Mesh size and its relationship with the fish species caught: The students

were shown net samples that indicated different mesh sizes. In addition, information regarding the importance of mesh size specificity to fish species was explained in detail.

- Information on the various aspect of the fishing trawler: The various technologies present on the fishing trawlers was explained. In addition, the entire process of fishing was explained.
- Fish species caught in the area by the fish trawler: The fish species that are locally harvested in Goa were observed by the students. Some of the fish species include:
 - Mackerel
 - Sardines
 - Pomfret
 - Squids
 - King fish
- Advantages and disadvantages of the protocols and procedures used: The guide explained the advantages of using trawlers over traditional methods of fishing. In addition, some of the drawbacks or problems faced by the fishermen were also emphasized.
- Current market scenario: The students were exposed to the current market of the harvested fish viz. In addition to the local consumption, a portion of the fish is exported to other states for consumption.
- Post-harvest catch and loss

Fish preservation protocols used on the trawler: The guide explained the techniques and technologies used by the trawlers to preserve the freshness and quality of the fish.

Photographs





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Report of “A visit to senior citizens of Provedoria Old Age Home, Margao”

NSS volunteers of Parvatibai Chowgule college of Arts and Science, Autonomous visited senior citizens of Provedoria Old Age Home, Margao on 1st October 2018. 52 NSS volunteers interacted with the senior citizens.





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Report of “Parvatibai Vachan Mandir:

A programme for the senior citizens from Provedoria old age home”

Parvatibai Vachan Mandir in association with NSS unit of Parvatibai Chowgule college of Arts and Science, Autonomous and Provedoria Old Age Home, Margao together organized a programme for the senior citizens from Provedoria old age home on 22nd January 2019. Around twenty senior citizens were welcomed in the upper auditorium of the college. A movie “Lage Raho Munnabhai” was screened to them. The elderly people had a wonderful time watching the movie along with 106 college students and staff.





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Report of “A street play for the senior citizens from Provedoria Old Age Home, Margao”

NSS unit of Parvatibai Chowgule college of Arts and Science, Autonomous in association with History department performed a street play for the senior citizens from Provedoria Old Age Home, Margao on 14th March 2019 in the college premises. Around 35 college students and staff attended the activity.





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Report of “BloodDonationCamp”

N.S.S. unit and Women Welfare Cell 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, Bambolim staff on 12th February 2019 in ‘G’ Block at 10.00a.m. 39 NSS volunteers (11 male and 28 female) donated blood in the blood donation camp. Also **Mr. Shibu Reghunathan**, Chairman, Indian Red Cross Society and two male faculties of the college also contributed to the noble cause.





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Shramadan (cleaning) and repairing the play ground at adopted village panchayat, Rumdamol-Davorlim

An activity of Shramadan(cleaning) and repairing the play ground at adopted village panchayat,Rumdamol-Davorlim was carried out by 55 NSS volunteers of Parvatibai Chowgule college of Arts and Science, Autonomous on 24th September 2018.





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Report of “Shramdaan”

115 NSS volunteers of Parvatibai Chowgule college of Arts and Science, Autonomous carried out Shramdaan to commemorate Gandhi Jayanti on 2nd October 2018. NSS volunteers were actively engaged in the cleaning process and cleaned many areas in the college campus including two-wheeler parking area, college statues, butterfly garden, coop, and washed and cleaned balcao of the college. The plastic waste was segregated from the organic waste and was dumped in the respective bins.





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Report on “PrabhaatFeri” - rally on cleanliness”

NSS unit of Parvatibai Chowgule college of Arts and Science, Autonomous organised a **“PrabhaatFeri”** on the occasion of 150th birth anniversary of Mahatma Gandhi on 2nd October 2018. The four NSS Programme officers Mr. Pradeep Jatal, Mrs. Sarika Advilkar, Dr. Mayuri Naik and Mr. Ashish Ashwini along with 97 NSS volunteers participated actively in this rally. It began at 7.45 a.m. from Chowgule college gate, proceeded towards the housing board, covered Gogol circle and *via* highway returned back to the college at around 9.00 a.m. covering around 5.0 kilometre distance. The rally aimed to spread the message of cleanliness to the society which all the NSS students tried to spread to their best through various posters and slogans. These posters which were based on cleanliness were held by the students throughout the rally along with raising different slogans such as “Clean India Green India”, “Swaccha Bharat NitalGoem”, “Swaccha Bharat Sundar Bharat”, “Nital Bharat Sundar Bharat”, 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 witnessed the appreciable work of awareness programme on cleanliness.





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Report of Awareness rally on “Enrolment of People on the Electoral Roll”

NSS unit of Parvatibai Chowgule college of Arts and Science, Autonomous organised an awareness rally on “Enrolment of People on the Electoral Roll” on 5th October 2018 at adopted village Rumdamol-Davorlim, Margao. It was organized to spread the awareness on the importance of enrolment on electoral roll among the local people. The three NSS Programme officers Mr. Pradeep Jatal, Dr. Mayuri Naik and Mr. Ashish Ashwini along with Dr. Sachin Kakodkar and 33 NSS volunteers (5 male and 28 female) participated in this activity.





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E-Waste Collection Drive

An **E-Waste Collection Drive** was undertaken for a week from 11th February 2019 to 16th February 2019 wherein the teachers and students collected their e-waste from home and deposited in the college campus. The entire collected e-waste was then properly delivered to **Global E-Waste Management System** for proper dumping of the e-waste without damaging environment.





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Report on “An awareness rally against open defecation”

NSS unit of Parvatibai Chowgule college of Arts and Science, Autonomous organised an awareness rally against “**Plastics**” on 14th November 2018 during the NSS special rural camp stay at Government college of Arts, Science and Commerce, Quepem from 10th to 16th November 2018. The four NSS Programme officers Mr. Pradeep Jatal, Mrs. Sarika Advilkar, Dr. Mayuri Naik and Mr. Ashish Ashwini along with 120 NSS volunteers participated in the rally. Students actively collected all the plastic waste from the areas surrounding Quepem college along with raising different slogans.





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An awareness rally against “open defecation”

NSS unit of Parvatibai Chowgule college of Arts and Science, Autonomous organised an awareness rally against **“open defecation”** on 15th November 2018 during the NSS special rural camp stay at Government college of Arts, Science and Commerce, Quepem from 10th to 16th November 2018. The four NSS Programme officers Mr. Pradeep Jatal, Mrs. Sarika Advilkar, Dr. Mayuri Naik and Mr. Ashish Ashwini along with 120 NSS volunteers participated in the rally. The rally mainly focused on spreading awareness on the importance of sanitation in rural areas surrounding Quepem college. NSS volunteers enquired about the availability and use of toilet facility by the village residents through door to door campaigning.





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Report on “Cleaning in College campus”

NSS unit of Parvatibai Chowgule college of Arts and Science, Autonomous carried out cleaning on 30th August 2018 in the college campus.





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Report on “Cleaning in front of college canteen area”

NSS unit of Parvatibai Chowgule college of Arts and Science, Autonomous carried out cleaning on 6th September 2018 in the college campus in front of canteen area.





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Report on “Cleaning in front of college canteen area”

NSS unit of Parvatibai Chowgule college of Arts and Science, Autonomous carried out cleaning on 28th September 2018 in the college campus in front of canteen area.





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Report on “Cleaning in two wheeler parking area of college campus”

NSS unit of Parvatibai Chowgule college of Arts and Science, Autonomous carried out cleaning on 18th January 2019 in the college campus in two wheeler parking area.





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Report on “Tiger Activity Centre area beautification in college campus”

NSS unit of Parvatibai Chowgule college of Arts and Science, Autonomous carried out Tiger Activity Centre area beautification on 25th January 2019.





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Report on “Cleaning in two-wheeler parking area of college campus”

NSS unit of Parvatibai Chowgule college of Arts and Science, Autonomous carried out cleaning on 1st February 2019 in the college campus in two wheeler parking area.





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Report on “Tiger Activity Centre area beautification in college campus”

NSS volunteers of Parvatibai Chowgule college of Arts and Science, Autonomous carried out Tiger Activity Centre area beautification on 1st February 2019.





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Report of Western Regional Seminar
on
“Frontiers and Innovations in Plant Sciences”

Title: Western Regional Seminar on “Frontiers and Innovations in Plant Sciences”

Date and year: 16th and 17th March 2018

Venue: Parvatibai Chowgule College of Arts and Science

Resource person/s:

1. Prof. Dr. Prabhat Kumar Sharma, “Photosynthesis: A solution to sustainable development, food security and clean environment.”
2. Dr. Manoj Lehkak, “Lateritic plateau ecosystems of northern Western Ghats: a storehouse of innumerable genetic resources”
3. Dr. Kundan Kumar, “Understanding the role of rice WNKs in abiotic stress tolerance”
4. Dr. Tamal Raha, “Development of bio-therapeutics using plant molecular farming”

Organising Committee: Department of Botany, sponsored by Department of Science, Technology and Environment, Department of Tourism, Department of Agriculture, Adventz- ZuariAgro Chemicals and Turbosketch

No. of Participants: 80

Objective: Understanding Frontiers and Innovations in Plant Sciences.

Summary of the proceedings:

The Department of Botany of Parvatibai Chowgule College of Arts and Science (Autonomous), Margao organized a two days Western Regional Seminar on “Frontiers and Innovations in Plant Sciences” on 16th and 17th March 2018. The seminar was sponsored by Department of Science, Technology and Environment, Department of Tourism, Department of Agriculture, Adventz- ZuariAgro Chemicals and Turbosketch. Dr. Sangeeta Sankhalkar, HOD of Department of Botany was the Convenor while Mrs. Janice Gracias Flor e Dias was the Organizing Secretary. The seminar was inaugurated by Prof. Dr. Prabhat Kumar Sharma, Department of Botany, Goa University who was the chief guest and key note speaker. His keynote was on “Photosynthesis: A solution to sustainable development, food security and clean environment.” Three lead lectures namely “Lateritic plateau ecosystems of northern Western Ghats: a storehouse of innumerable genetic resources”; “Understanding the role of rice WNKs in abiotic stress tolerance” and “Development of bio-therapeutics using plant molecular farming” were delivered by Dr. Manoj Lehkak, Dr. Kundan Kumar and Dr. Tamal Raha respectively. Around 80 participants from different colleges namely St. Aloysius College, Mangaluru; JNTBGRI Thiruvananthapuram, Kerala; Goa University; Carmel College; PES College, Ponda and Govt. College, Quepem along with in house students and faculties attended the seminar. There were presentations, deliberations and discussions on number of research papers presented. Two best posters and oral presentations were awarded a cash prize.



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REPORT OF 'TECHNIQUES IN PLANT GENETIC DIVERSITY AND CONSERVATION'

Title: Techniques in Plant Genetic Diversity and Conservation

Date and year: 3rd& 4th September 2018

Venue: Upper Auditorium

Resource person/s:

1. Dr. S.R. Yadav from Department of Botany, Shivaji University, Kolhapur.
2. Dr. P. B. Kavi Kishor is Prof. Emeritus at Plant Genetic Department of Osmania University, Hyderabad.
3. Dr. M.K. Janarthanam, from Department of Botany, Goa University
4. Dr. S. Anil Kumar working as SERB- National Postdoctoral fellow at Jawaharlal Nehru University, Hyderabad

Organising Committee: Dr Uma Masur

No. of Participants: 22

Objective:

1. To enrich the students with the latest updates of the Academics and Technicalities.
2. To bestow the students with knowledge about Academic needs, latest technical updates and Avenues for Higher studies
3. To stimulate thinking and facilitate understanding, arousing interest and motivating further inquiry and discussion

Summary of the proceedings:

The workshop began with an inaugural function at 09:30 am on 03 September 2018. The inaugural function, was addressed by Prof. S.R. Yadav followed by book release of 'Fundamentals of Environmental Biotechnology' co-authored by Dr. Uma Masur and Dr. Uday Kumar Sangodkar. First session was on 'Plant diversity of Western Ghats and its Conservation' by Dr. S.R. Yadav, who emphasized on saving the biodiversity and conducting more research by field botany so as to protect the biodiversity of the Western Ghats. Second Session by Dr. P. B. Kavi Kishor on "Plant biology: what has been achieved so far and what need to be achieved by 2050". He stressed upon the need to understand what technology can do in advancing our knowledge in life sciences especially plant sciences by focusing on the various advance technologies being developed for the same. The second

half of the day began with the practical session where DR. P.B. Kavi Kishor and Dr. Anil Kumar guided the students to Isolate the genomic DNA from Plants and run the DNA using Agarose gel Electrophoresis.

Day 2 began with a lecture on 'Germplasm and its conservation' by Dr. Anil Kumar. He highlighted that Germplasm conservation is the need of the hour as it serves as the link between the acquisition and utilization of plant genetic resources. He also mentioned about the various techniques that can be employed in germplasm conservation. Lecture by Dr. M.K. Janarthanam on "Introduction to Phylogenetics" who accentuated that technologies like various software's developed in the area of phylogenetics are helping us understand the relationship between the different groups of plants which otherwise we would not have understood. However, becoming a complete slave of technology is also harmful but a blend of both technology and field work is necessary. The lecture series was followed by a practical session where the students were thought to about the amplification of previously isolated genomic DNA using the Polymerase Chain Reaction (PCR) and a Demonstration on Primer Designing.



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REPORT OF 'OYSTER MUSHROOM CULTIVATION WORKSHOP'

Title: Oyster Mushroom Cultivation Workshop

Date and year: 2 November 2018

Venue: Botany Laboratory

Resource person/s:

1. Ms. Gauri Prabhudessai, Assistant Agriculture Officer, Zonal Agriculture Office, Margao
2. Ms. Richa Desai, Block Technology Manager, ATMA South

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

No. of Participants: 25

Objective:

1. To impart hand-on training in Oyster mushroom cultivation
2. To enlighten the participants about the technicalities of mushroom cultivation.
3. To strengthen the participants to begin their journey as entrepreneurs

Summary of the proceedings:

As a part community outreach programme, Department of Botany of Parvatibai Chowgule College of Arts and Science (Autonomous), Gogol, Goa in collaboration with Agriculture Technology management Agency (ATMA), South Goa, Directorate of Agriculture, Goa, organized one-day workshop on 'Oyster Mushroom Cultivation' on 2nd November 2018 from 9:00 AM to 5:00 PM at Botany Laboratory. This workshop was sponsored under Department of Biotechnology (DBT) Star College Scheme. This event was open for students, faculty, and other public. This workshop enlightened the participants on importance of mushrooms and its cultivation in India. The sessions were very interactive, with hands on practical training and the participants gave positive feedback on this workshop. Also, the budding entrepreneurs M square Farms shared their experiences with the participants.



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REPORT OF 'GREEN BAZAAR-AGRI EXPO'

Title: Green Bazaar- Agri Expo

Date and year: 14 December 2018

Venue: A- 208, Science Block(Inaugural) and Tiger's Avenue (Stalls)

Resource person/s:

1. Oyster mushrooms (M square farms),
2. Essential oil products, soaps and more (Agathose essentials),
3. Fruit graft saplings (Cajie Farms),
4. Organic bio products (Green planet)
5. Ornamental plants, Succulents, Vertical planters. (GHK's Sprouting dreams)
6. Organic compost, mulch, henna stall (Students entrepreneur stall)

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

No. of Participants: Open to all

Objective:

1. To encourage students into entrepreneurship, by having a stall and understanding the technicalities of handling one.
2. To exhibit variety of plants for sale for the staff, students and general public.
3. To expose them to the scope of nursery management.

Summary of the proceedings

The inaugural was held at A- 208, Science Block. Vice Principal Dr. Shaila Ghanti, College DBT Coordinator Dr. Nandini Vaz Fernandes graced the inaugural with their presence. At the inauguration, Vice Principal of the college Dr. Shaila Ghanti said it's important for the students to think and innovate. And innovate in such a way that it benefits the society. She emphasized on the importance of thinking towards innovation.



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Report on "The Bard by the Mandovi –Shakespeare Festival"

Title:	The Bard by the Mandovi –Shakespeare Festival
Date and year:	10September, 2018
Venue:	Parvatibai Chowgule College of Arts & Science - Autonomous
Resource person/s:	16 Judges Various - Ms. Elaine Noronha (Asst. Prof. MES, Vasco), Ms. Shubhangi Thakur, Ms. Gaargi Bhat (Asst. Prof. Damodar College, Margao) etc
No. of Participants	200 students from 13 schools
Objective:	To facilitate the learning of literature in an enjoyable way amongst students who do not study English literature in any form. Also, to give students a platform to creatively express this new knowledge they gain.
Summary of the proceedings	<p>Every year, the Department of English puts up a marvellous event for all School and Higher Secondary Schools in Goa. 'The Bard by the Mandovi' is a one day event organised by the first year English Tygers, along with the help of their Second year and Third year seniors as well as the faculty of the Department. This year the ninth edition of this festival was organized on <i>Monday, 10September, 2018</i>. Over 200 students from 13 schools across the state competed in several competitions.</p> <p>After the formal lighting of the lamp and an encouraging speech by our Head of Department, Dr. Sonia Fernandes, and the Vice-Principal Dr.ShailaGanti, the event was declared open.</p> <p>The competitive events included 'Steal-A-Scene', where students enacted scenes from the Bard's plays, and 'Shakespearean Soliloquy' – where they performed his famous monologues. From <i>Macbeth</i>, to <i>Merchant Of Venice</i>, <i>Twelfth Night</i> and <i>As You Like It</i>, many of Shakespeare's most popular productions were cited at the event. Off-stage events included Mozaic, Bedtime Shakespeare and Dioarama Drama.</p> <p>Vidya Vikas Academy, Margao won the overall prize, while Our Lady of the Rosary High School, Dona Paula was placed second the King's School Margao , came third.</p>



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Report on “Cosfest Goa 2018”

Title:	<u>Cosfest Goa 2018</u>
Date and year:	10 September 2018
Venue:	Parvatibai Chowgule College of Arts & Science - Autonomous
Resource person/s:	Actor, Director Ms. Saroj Usgaonkar, Joy Murmu (Animation Director - Tigers' Studio), Shruti Haldankar (the urbanista), Animation programme Director (Chowgule College),
No. of Participants	55
Objective:	To introduce popular culture and its facets through a cosplay competition. to provide a platform for creative expression of what they are passionate about. This is another unique event in Goa. The only one of its nature.
Summary of the proceedings	<p><u>Cosfest Goa 2018 - Bringing Pop Culture to Life!</u></p> <p>The second edition of Cosfest Goa was organized by the Department of English.</p> <p>All popular comics, fantasy and fictional characters came out to play for this special event, ranging from Jack Sparrow, Darth Vader and Black Panther to Harley Quinn and the Naruto siblings. There were even some Indian television and film-inspired cosplayers in the house such as Daya Ben from <i>Tarak Mehta Ka Ooltah Chashmah</i> and Alauddin Khilji from <i>Padmaavat</i>.</p> <p>A group of students from Goa Engineering College and Padre Conceicao College of Engineering - who dressed up as a character PubG, Khilji, the musician Marshmello, Gamora from <i>Guardians Of The Galaxy</i>, Valac (from <i>The Nun</i>) and Barbie Girl- bagged the top prize in the group category.</p> <p>In the solo spots, Black Panther (Clive Rodrigues) bagged the first place while Wonderwoman (Simmonnee Barretto) and Captain Jack Sparrow (Anish Silva) were the runners up. Cleopatra (Ann Maria Andrade) bagged the consolation prize.</p> <p>Overall the programme was well attended.</p>




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Report on "Certificate course in Coloured Gemstone Testing"

Title:	Certificate course in Coloured Gemstone Testing
Date and year:	19 November 2018 onwards
Venue:	Department of Geology, Parvatibai Chowgule College
Resource person/s:	Meghana D Devli, Gemmologist, DGTL, Jaipur
No. of Participants	10
Objective:	<p>The course dealt with,</p> <ul style="list-style-type: none">• What are minerals? Which minerals qualify to be gemstones?• How and where are gemstone varieties found?• Which factors decide their cost?• How to enhance low quality gemstones?• How are gemstones synthesized?• How are they cut and polished?• How is International grading of diamond done?• Hands on training in identification of different varieties of coloured gemstones.
Summary of the proceedings	<p>The participants were able to</p> <ul style="list-style-type: none">• Understand the visual optical effects of gemstones like cats eye, asterism, aventurescence, play of colours, colour changing gemstones.• Understand which factors control the gemstone pricing in the market• Know the techniques of upgrading a low quality gemstones to a higher grade.• Know the different process of manufacturing gemstones artificially.• Identify coloured gemstones visually.

	<ul style="list-style-type: none"> • Identify coloured gemstones scientifically, distinguishing natural, treated and synthetic gemstones using standard gemmological instruments like Dichroscope, Polariscope, Refractometer, Spectroscope, UltraViolet Lamp. • Pursue career options in gemstone industry.
Photographs	 <p>PARVATIBAI CHOWGULE COLLEGE OF ARTS AND SCIENCE (AUTONOMOUS) DEPARTMENT OF GEOLOGY CERTIFICATE COURSE IN 'COLOURED GEMSTONE TESTING'</p> <p>10 SEATS 19/11/2018 ONWARDS</p> <p>DURATION: 30 HOURS (12 HOURS THEORY AND 18 HOURS LABORATORY SESSIONS)</p> <p>FEES: 10,000/- (INCLUDES 2,500/- AS DEPOSIT FEE WHICH WILL BE REFUNDED AT THE END OF THE COURSE)</p> <p>COURSE CO-ORDINATOR: MEGHANA S DEVI, GEMMOLOGIST, DGTI, JAIPUR</p> <p>Who can apply: Those who are interested in learning about gemstones and their identification. Where to apply: Online form will be uploaded at chowgules.ac.in</p> <p>Email: msd001@chowgules.ac.in msd00153@gmail.com Phone No: 9921144408</p>



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

REPORT OF 'ENERGY AUDIT'


Title:	Energy Audit
Date and year:	10 th November to 19 th November 2019
Venue:	Chowgule College
Organising Committee	Physics Department
No. of Participants	6
Objective:	<ul style="list-style-type: none">• To take a stock of performance of the institution with respect to Energy and find potential opportunities for conserving these• Use the Audit Report as a Baseline to review Progress periodically• Help raise awareness about environmental conservation among students and staff
Summary of the proceedings	<p>The process involved for the energy report is as follows:</p> <ul style="list-style-type: none">• Basic discussion and collection of preliminary information through compilation of data from the Electricity Bills• Preparation of detailed inventory list of various appliances in the premises• Actual Measurement of few parameters• Analysis based on the above to find out ENCON (Energy conservation) methods• Estimation of the Solar PV potential of the College• Report preparation



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Report of "Resurrection of Woman Sociologist"

Title:	"Resurrection of Woman Sociologist" 'Sociofiesta'
Date and year:	19 th January 2018
Venue:	Upper Auditorium, Parvatibai Chowgule College
Resource person/s:	Dr. ShailaDesouza, Head of the Department of Women's Studies at Goa University.
No. of Participants	45 students from all over the state.
Objective:	a) Help students understand the woman's issue, b) Create a spirit of competition c) Unleash the hidden talents of the students, d) Foster Sister/brotherhood among the Goan Students.
Summary of the proceedings	The Department of Sociology organized the 9th edition of inter collegiate event "Sociofiesta" on the theme "Resurrection of Woman Sociologist" on 19th January 2018. The chief guest for the event was Dr. ShailaDesouza, Head of the Department of Women's Studies at Goa University. Four colleges participated in the event.
Photographs	 



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Report on “Goenkarponn”

Title:	Goenkarponn
Date and year:	December 2018
Venue:	Upper Auditorium, Parvatibai Chowgule College
No. of Participants	96
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 of Parvatibai Chowgule College of Arts and Science had organised a one day Itate Level Higher Secondary School Event - Goenkarponn on 17th December 2018. This event was organised with the objectives to: 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. 8 institutions participated for the event, with the total of 96 participants and along with nine accompanied teachers- HarmalPanchakroshi Higher Secondary School, Pednem; Balram Higher Secondary School, Canacona; Maria Bambina Higher Secondary School, Cuncolim; Mount Mary Higher Secondary School, Chinchinim; Cuncolim United Higher Secondary School, Cuncolim Salcete; MES Higher Secondary School; Zuwarinagar- Vasco; St. Alex Higher Secondary School, Curtorim Salcete; Shir Chandra Bhaga Tukoba Naik Higher Secondary School, Curchorem. The students from the department (55) volunteered and assisted this event. The Chief Guest for the event was Mr. Gopinath Gawas, Headmaster, Vivekanand Dyan Mandir High School, Keri also present was Prof. Harish Nadkarni, Vice Principal of the College.





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Report on “Emerging Trends in Sociology”

Title:	‘Emerging Trends in Sociology’
Date and year:	8 th February 2018
Venue:	Geography Lab, Parvatibai Chowgule College
Resource person/s:	Professor Paula Maria Guerra Tavares, from the University of Porto, Portugal.
No. of Participants	9 sociology teachers from Goa
Objective:	To understand the new trends in Sociology To share the cultural difference with the faculty from other country.
Summary of the proceedings	The faculties discussed the various emerging trends and great contribution was made by Prof.Paula.
Photographs	






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Report on "A visit to Provodoria-Old Age Home-Margao"


Title:	A visit to Provodoria-Old Age Home-Margao
Date and year:	20 TH March 2019
Venue:	Provodoria-Old Age Home-Margao
Resource person/s:	
No. of Participants	10
Objective:	<ol style="list-style-type: none"> 1. To provide a sense of family to the old members in the Provodoria. 2. To spend some valuable time with the old aged and provide them with happiness through the time spent with them.
Summary of the proceedings	Students enjoyed to be a part of the old aged and spend some time with them. We had tried to provide the old with sense of being as a family member, while we spend time talking to them. We also attended the way of the cross which was held on that day. They were very happy with our presence.
Photographs	



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Report on "A visit to Asilo-Old age home"

Title:	A visit to Asilo-Old age home
Date and year:	22 nd March 2019
Venue:	Benaulim
No. of Participants	10
Objective:	1. To give a sense of family to the old inmates in the old age. 2. To spend time with the old age and provide them with some happiness.
Summary of the proceedings	Generally it was a good experience whereby we could interact with the old aged, knowing them and talking with them with regards to their health and their problems.
Photographs	

1. COMMUNITY OUTREACH CONDUCTED (2015 - 2016)


Title:	A visit to Asilo-Benaulim
Date and year:	27 th March 2019
Venue:	Benaulim
Resource person/s:	
No. of Participants	10
Objective:	1. To give a sense of family to the old inmates in the old age. 2. To spend time with the old age and provide them with some happiness.
Summary of the proceedings	Generally it was a good experience whereby we could interact with the old aged, knowing them and talking with them with regards to their health and their problems. We also sang songs along with them, giving them a sense of their youth-hood.
Photographs	 



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Report on "A visit to Valentina's Little Heaven Orphanage"

Title:	A visit to Valentina's Little Heaven Orphanage
Date and year:	22 nd March 2019
Venue:	Colva
No. of Participants	10
Objective:	<ol style="list-style-type: none"> 1. To spend time with the orphan children. 2. To give them a sense of love and not to feel them that they are lonely.
Summary of the proceedings	<p>The kids who are in the orphanage are very talented. These kids have a proper time table which make them follow and keep everything on track. This gave us a sense of being responsible.</p> <p>Overall experience: The overall experience was very good, where we could interact with the children in the orphanage. We had also carried with us chocolates and biscuits for the kids. This made the kids very happy.</p>
Photographs	



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Report on “Education to the needy children-Margao Inox”

Title:	Education to the needy children
Date and year:	18 th March 2019
Venue:	SPGD ground opposite Inox, Margao
No. of Participants	10
Objective:	<p>1. To reach out to the unfortunate section of the society and help them in getting educated by trying to inculcate and sharing the basic knowledge among the needy children who are unable to attend schooling.</p> <p>2. To at least teach basic things and teaching them the mandatory things required to know.</p>
Summary of the proceedings	<p>On the 1st day of teaching at the start we all introduced ourselves made a rapport with the students was done asked questions like age, name what they would like to become when they grow, than importance of education was briefed to them. When asked about what they already know they said languages they know are Hindi, Marathi, and one of their Jhati (mother tongue) languages. Most of them said they used to go to school 3years ago in Pune but due to unfortunate circumstances had to drop out we began the content with teaching them the most basic alphabets in English by demonstrating how to write and making them say along with us after which revision was done. We further taught them how to write their names individual attention was provided, paper and pencil were distributed. Later we taught the parts of the body by action in a sing song manner and ended the session by making them revise the alphabets in a fun way by playing a game.</p> <p>A full on revision was done that is alphabets, numbers and parts of the body. Than a book was bought which contained overall matter with pictures and many more things from that we with that book we helped them recognise the types of animals, vegetables, colour, days of the week were taught moral stories were narrated to them than notebooks pencil, eraser and sharpener was distributed we inserted alphabets, numbers in their books so that they can remember and rewrite and also they practised writing their own names lastly at the end we showed them animated movie named (sing) after movie we asked for feedback they said they loved us and it was very nice experience than we exchanged our good buys thank you and left taking a final picture</p>

Photographs





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ENVIRONMENT CONCIOUSNESS
GREEN INITIATIVES
2018-19

DEPARTMENT OF ZOOLOGY:

Department of Zoology conducts various activities related to environment conciousness such as competitions, Industry-academia lectures, fieldtrips, workshops/conferences/seminars related to environment conservation and awareness programmes. The department has also promoted green initiatives on the campus through 'Chowgule's Birders Club', Butterfly garden. Department also conducts certificate course on Vermicomposting.

Activities carried out by TYBSc Department of Zoology for 2018-2019 are given below:

1) AWARENESS PROGRAMMES:

Under the guidance of all faculty form deparatment of Zoology, the TYBSc students carried out the following awareness programmes to promote environment conciousness:

- a) **Kitchen waste segregation** (05-04-2019 - 06-04-2019): Community outreach program on kitchen waste management was conducted in and around Margao, namely Kavlem, Navelim, Cansaulim and Paigin. The aim of the programme was to spread awareness about segregation and composting of kitchen waste from households. A Total of 60 houses were a part of this activity.
- b) **Waste Segregation and Collection** (05-04-2019- 10-04-2019): This programme was conducted to create awareness on the aspects of waste management, segregation, recycling and composting. A total of 50 houses

in Margao, Raia, Assolna, Cortalim and Vasco benefitted from this programme.

- c) **Sanitary Hygiene** (05-04-2019- 10-04-2019): To create awareness on the aspects of sanitary hygiene and menstrual health, 50 houses in Borda, Gogol, Nuvem, Raia, Paroda, Shiroda, Cuncolim, Assolna, Quepem, Colva and Vasco were considered for the programme. Subjects were made aware of the various aspects of menstruation and care to be taken during menstruation.
- d) **Beach Cleanup** (05-04-2019- 06-04-2019): Colva, Benaulim and Hollant beach cleanup was done to create awareness among the locals to keep the beaches clean. Cleaning up beaches could boost local economies in addition to preserving natural treasures and animal habitats.

2. COMPETITIONS ON ENVIRONMENT CONSERVATION CONCIOUSNESS :

- a. Photography competition was organised on 26th July 2018, to sensitise students on Mangroves biodiversity, its importance, consequences of its destruction and need for conservation of mangroves.
- b. Painting competitions was organised on 26th July 2018 to sensitise students on various aspects of Mangroves, its importance, consequences of its destruction and need for conservation of mangroves.



2. FIELD TRIPS RELATED TO ENVIRONMENT CONSERVATION CONCIOUSNESS :

- a. **Field trip to Mollem:** Miss Madhu P Balekai, Miss Tessa Vaz, Miss Andrea D'Souza, Miss Gautami Manakikar and Mr. Stephen Dias along with 70 FYBSc and TYBSc students visited Bhagwan Mahaveer Wildlife Sanctuary On the 9th September 2018. Aim was to acquaint the students with the rich diversity of flora and fauna present in Goa's protected areas.



- b. **Field trip to Cotigao:** Miss Madhu P Balekai and Miss Andrea D'Souza organized a local field trip on 24th march 2019 to Cotigao Wildlife Sanctuary for FYBSc students. They identified amphibians, arthropods, reptiles, birds and mammals. After the visit at sanctuary the students were taken to Olive Ridley nesting sites at Galjibag beach.



- c. **Field trip to ICAR, Old Goa:** Ms. Andrea D'Souza, Ms. Tessa Vaz, Ms. Gautami Manakikar and Mr. Stephen Dias along with 35 students of the third year and 55 students of the Second-year zoology visited the ICAR - Central Coastal, Agricultural Research Institute, Old Goa on the 19th of March 2019. The students specifically visited the entomology and the fisheries department for the purpose of study.



- d. **Field trip to fish landing site, Betul:** Faculty members Ms. Andrea D'Souza, Ms. Tessa Vaz and Ms. Gautami Manakikar along with 56 students of the second-year zoology visited a fish landing site at Betul. The students observed the different kinds of fishing gears, trawlers and other equipment used for fishing.



3. INDUSTRY-ACADEMIA LECTURES/ACTIVITIES:

- a. **Bird Conservation:** Chowgule's Birder's Club of Zoology department organized its Industry-Academia lecture series on 13th August 2018. The objective of this event was to acquaint the students with the rich diversity of birds in Goa and the importance of bird research. Resource persons were Ms. Marvelyn Dias and Mr. Pankaj Lad Secretary of the Goa Bird Conservation Network (GBCN). The event was attended by 99 students and 07 faculty members.
- b. **Wildlife and Ecotourism:** The Department organized industry-academia lecture series & interaction on 07th January, 2019. The theme was on Wildlife and Ecotourism. Resource persons were Mr. Nirmal Kulkarni, Chairman, Mhadei Research Center, Chorla Ghats, India, and Mr. Peter Lobo, Field biologist (Ecotourism). . The event was attended by 98 participants.

- c. **Tiger Census:** Four students from the Zoology department participated in the Wildlife census 2018 which was organized from 01st May 2018- 06th May 2018 by the forest Department of Goa. This survey is conducted once after every 05 years. Being a part of this survey gave students an unique experience of field data collection of the carnivores and mega herbivores, their pellets, evaluation of its habitat quality and human disturbances in the allotted forested areas.
- d. **Bird walk with Forest department:** Chowgule's Birders club members attended the birdwalk organized by the Forest department, Govt. of Goa on 23rd Feb 2019 at Ria-Maina wetland from 7.00am to 9.30am. Dr. Nandini Vaz Fernandes and 10 students participated in the Birdwalk along with the forest department officials. The Principal Chief Conservator of Forests inaugurated the event. Mr. Siddesh Gaude, Range forest officer and other officials also participated in the Birdwalk.

4. WORKSHOPS/CONFERENCES/SEMINARS:

- a. **National Conference:** The 'Department of Zoology' in association with 'Mangrove Society of India, Goa Branch' and 'Goa State Wetland Authority' organized a National Conference on '*Wetland Conservation: Approaches And Threats*' on 2nd February 2019. The conference on 'Wetland conservation: Approaches and threats' was organized with the objective of creating awareness on the importance of wetland ecosystem, the conservation laws, strategies of conservation and potential threats which exists for wetlands in India. The conference was attended by 112 delegates.
- b. **Exhibition:** The department put up an 'Exhibition of Drones' where there was demonstration of use of drones, and session on how it can be used to enhance wetland research.

5. BIRD WALKS BY CHOWGULE'S BIRDERS CLUB (CBC):

The Birders club is coordinated by the faculty coordinators Dr. Nandini Vaz Fernandes and Mr. Stephen Dias along with student coordinators Mr. Abhirajsinh Bhatti, Ms. Ruta Sawant, Ms. Prachi Talavnekar from SYBSc. The following birdwalks were conducted.

- a. Bird walk: Under the guidance of Mr. Stephen Dias and Mr. Joshua Chowgule's Birder's Club of Zoology department organized a bird walk on 17th August at Mayna- Curtorim. The students were introduced to birding in the field and bird survey methodology. The walk was for about 1km. About 20 students attended this bird walk.
- b. Global Backyard Bird Count : The Chowgule Birder's Club (CBC) participated in the three day annual global event "Global Backyard Bird Count"(GBBC) from 16th to 18th February 2019. The FYBSc and SYBSc students participated in the effort to document all the species of birds present in the Chowgule College campus. The findings were registered in the E-Bird global site. A total of 36 birds were recorded in the campus during the campus count. The total bird species count of the campus now stands at 67.

6. ENVIRONMENT RELATED RESEARCH :

The faculty and students of department of zoology conducted research related to environment issues and presented the same in national conferences. Papers presented are:

1. Fernandes NV, Ravindran J, Rajadhyaksha R, Coutinho T, Fernandes R and Asolkar Y(2019). Water Quality and Impact on Human Health: Study of Kidney Disorders in Canacona Taluka. Paper presented at National conference on 'Wetland conservation: Approaches and Threats, 2nd Feb 2019 at Parvatibai Chowgule college. Awarded first place for the best paper prize.
2. Vaz T, Fernandes A, Redkar K, Raiker D, Sattarkar S and Sudhir P(2019). Assessment of water quality of River Sal: Anthropogenic effect. Paper presented at National conference on 'Wetland conservation: Approaches and Threats, 2nd Feb 2019 at Parvatibai Chowgule college. Awarded Third place for the best paper prize.
3. Dsouza A, Fernandes MR, Naik S, Pereira K, Honnaverkar S and Navelkar P (2019). Study of Odonates in Borim. Paper presented at

National conference on 'Wetland conservation: Approaches and Threats, 2nd Feb 2019 at Parvatibai Chowgule college.

4. Dias SJ, Gaonkar S, Totad S, Sawant G, Sheikh S(2019). An assessment of Habitat Selection and fishermen's perception of smooth coated otters in Zuari River system. Paper presented at National conference on 'Wetland conservation: Approaches and Threats, 2nd Feb 2019 at Parvatibai Chowgule college.
5. Fernandes, NV, Ravindran J, Rajadhyaksha R, Coutinho T, Fernandes R and Asolkar Y(2019). Strategies to Mitigate Chronic Kidney Disorder in Canacona Taluka, Goa. Paper presented at National conference on 'Innovation in Life Sciences for Sustainable Environment' held at Christ University Bangalore on 20th-21st February 2019.
6. Balekai M, Halali D, Rodrigues R, Barbosa S, Sharma M, Pinto J(2019). Dynamics of seasonal forms of *Melanitis leda* (Nymphalidae: Lepidoptera) in response to environmental condition in wild. Paper presented at National conference on 'Innovation in Life Sciences for Sustainable Environment' held at Christ University Bangalore on 20th-21st February 2019.
7. Vaz T, Fernandes A, Redkar K, Raiker D, Sattarkar S and Sudhir P(2019). Impact of water quality on the distribution of Fauna in River Sal, Salcette Goa. Paper presented at National conference on 'Innovation in Life Sciences for Sustainable Environment' held at Christ University Bangalore on 20th-21st February 2019.
8. Manakikar G, Shakya N, Baretto L, Fernandes M, Fernandes R, Cardozo D (2019). Evaluation of water quality in lakes of Curtorim. Paper presented at National conference on 'Innovation in Life Sciences for Sustainable Environment' held at Christ University Bangalore on 20th-21st February 2019.

7. CAMPUS INITIATIVES:

- a. **Bird Houses in the campus:** The Chowgules Birders Club (CBC) installed wooden bird boxes throughout the college campus. The aim of the exercise was to provide artificial nesting/ shelter for the birds inhabiting the college campus. It provides birds with

additional nesting opportunities and gives unparalleled bird watching opportunities.

- b. Butterfly Garden:** The College took an initiative of creating a butterfly garden in the campus, which was inaugurated on 2nd October 2017. The butterfly garden has different host plants planted in it which include both adult and larval feeding plants. The garden also has shelter providing trees and shrubs, water and substitute for nectar. It also has a board displaying the different species of butterflies found on the campus. In 2018-19, 16 additional host plants were planted at various locations within the campus. Presence of many species of butterflies on our campus is an indication that the Chowgule college campus is clean and healthy.

DBT STAR COLLEGE SCHEME INTERDISCIPLINARY ACTIVITIES:

As interdisciplinary projects, following environment conservation related projects were initiated by Chairperson of DBT Star College Scheme, Dr. Nandkumar Sawant and Overall College coordinator, Dr. Nandini Vaz Fernandes:

The projects carried out were:

- 1. Green Audit:** Green audit was conducted of the energy, water and waste generated and biodiversity on the campus.
- 2. Campus Biodiversity Documentation:** Department of Botany, Zoology and Geography carried out the interdisciplinary project of documenting Biodiversity of the Campus. 06 Students under the guidance of Ms. Amisha Pednekar, Ms. Divyarani Rivonkar, Mr. Stephen Dias, Ms. Gautami Mankikar, Dr. Nandini Vaz Fernandes and Mr. Deepak Kumbhar. The Floral and faunal biodiversity was recorded and mapped on the campus.
- 3. Harnessing Solar Energy:** Under the guidance of Mr. Yatin Desai, students carried out project of installing solar panels.
- 4. 'Save Energy' initiative:** As an initiative to save energy on campus, 06 students under guidance of Dr. Nandini Vaz Fernandes, conducted awareness programme by sticking labels on doors/ walls to switch off

ACs, Lights and Fans in classrooms and administrative block when the venue is not in use.

- 5. 'Save water' initiative:** As an initiative to save water on campus, 06 students under guidance of Dr. Nandini Vaz Fernandes, conducted awareness programme by sticking labels on to turn off the taps tightly, and prevent unnecessary wastage of water in canteen and restrooms.



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Best affiliated College-Goa University Silver Jubilee Year Award

Report on “Education to the needy children-Moti Dongor Slum Area”

Title:	Education to children
Date and year:	11 th March 2019
Venue:	Moti dhongor, Margao
No. of Participants	10
Objective:	<ol style="list-style-type: none"> 1. To reach out the awareness of the children facing in education and want to learn more. 2. To at least teach basic things and teaching them the mandatory things required to know.
Summary of the proceedings	<p>The children seemed very enthusiastic to learn. We started the session by teaching them numbers 1-20. Games were played on their request a game called “pakdampakdi”. Some basic manners were taught, than we asked them if they know anything they want to showcase so two girls sang a song poetry type and 2 boys told us the story of their and the tortoise in Marathi.</p> <p>I have also taught alphabets and poetry. Which they were very getting difficult to understand and say to it. But slowly slowly they have tried their best. These children were around the age group 4-11 years of age. The duration of teaching was for 3 continuous days. Attempt was made to at least teach basic things. Consent was taken from the elders of the family from which the children belonged to Rajasthan. They have also told about different culture that they follow and they strictly do. Some children were fighting for pencil and pen. And thrice it been taught they do well.</p>
Photographs	