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CRITERION - VII

Institutional Values and Best Practices

7.1.5 Green campus initiatives

ISO 9001: 2015-ISO 14001: 20 Hyderabad- 500 028, India

7.1.5 Supporting Document

Green Campus Initiatives (2019-20)- Report

The college has been instilling the values and awareness about environmental issues to through AECC- courses like Environmental science. We encourage and Conduct Survey projects on Environmental issues, Undertake Research projects on Environmental problems, Increase Collaborations and Networking with NGOs & Organizations like WWF.

Eco club level activities

Plastic Free Hyderabad Campaign

Eco club volunteers participated in News Paper Bag Making Workshop and Poster Making Competition on the Theme "Beat Plastic Pollution organised at Sanjeevaya Parkby Dhruvansh NGO in collaboration with US High Commission on June 15, 2019.



Plastic Free Hyderabad Campaign

Newspaper bag Making/Sanitary pad pouch making was demonstrated to Eco club and Environment Education students by Yogitha and Swetha Sharma to create awareness among students to avoid plastic bags on July 4, 2019.



Seed Ball Making Activity

As part of our volunteer activity, we are supporting to create awareness on The Seed Ball programme which focuses on increasing green cover across Hyderabad.

Evnironmental Education students and Eco Club volunteers participated in this Seed Ball Making Activity, conducted in our college on 27-09-2019.

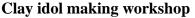




Seed Ball Making Activity



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Eco club of our college organized clay idol making workshop in our college premises, in collaboration with Green Waves Environmental Solutions. Green Waves Environmental organization has trained our students in making these idols with 21 different seeds like vegetable and medicinal plant seeds. The activity was organized on 29th August,2019





Making of Eco-friendly seed Ganesha

Awareness program on Making of Eco-friendly Seed Ganesha

Eco Club volunteers conducted Seed Ganesha awareness for around 200 employees at Worley Parsons MNC in the VIT Park Hitech City on 23rd Aug2019.





Clay Idol Making Workshop-Seed Ganesha Activity

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Seed Ganesha Making – Program in Kushi TV at Green Mitti was organized by Eco club Volunteers on 24th Aug 2019 in view of World Ozone Day



Green Mitti initiative

Swacchata Hi Seva Campaign

Swacchata Hi Seva Campaign is being launched by the Government of India from September 11,2019 to October 2, 2019 with the aim to eliminate use of plastic and to dispose plastic waste. Campaign is launched, commemorating the 150th birth anniversary of Mahatma Gandhi and fourth year anniversary of Swachh Bharat.

Various activities were conducted from September 11,2019 to October 2, 2019

St. Anns college for women organized a slogan contest on plastic free campus from September 11, 2019 to September 16, 2019. First year volunteers of NSS and Eco club conducted an awareness rally on September 24th raising slogans for a plastic free society.



Slogan Contest

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Best out of waste competition was conducted on September 24th First year volunteers of NSS and Eco club both participated



Best out of waste competition products

Collection of Old Clothes was under taken by students of First year volunteers of NSS and Eco club, 205kgs of clothes were collected from the students of the college and was donated it to Green Waves Environmental Solutions where in return they would provide equal weightage of cloth bags to the students. Designed a huge bag made of old flexi banner and hung it in the quadrangle area of the college to encourage students to drop their plastic waste in it and to be recycled later. The plastic was donated to Green Waves Environmental Solutions for recycling



Colth Collection Drive for recycling Old Clothes

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Sale of Biodegradable Sanitary Pads

As a part of creating awareness on Biodegradable sanitary pads Eco club on17th December 2019, has put up a stall in the quadrangle for the sale of Biodegradable Sanitary Napkins Organized by Final year BBC Students & Eco Club Volunteers, in collaboration with Apna Green Products.



Members of Eco Club Selling Biodegradable Sanitary Pads

Volunteering for Chiguru Event

On 15-12-19 December, Chiguru event was organized by Youth For Seva At Pallavi International School Gandipet, Ranagareddy District.39 Eco club volunteers took part in this event by volunteering in organizing 15 different competitions during the event.



Chiguru Event

Workshop on Up cycling of Waste Materials

Upcycling of Waste –workshop was conducted in the month of January 2020 in collaboration with Green Mitti organisation. Students took part in the workshop by upcycling some of the available waste products on the spot.

Students participating in Upcycling of Waste workshop





Waste Management -Eco club activities:

Kitchen waste Composting Activity was organized by explaining the significance of Waste segregation as the first step and step wise Demonstration/ Video Screening of composting waste in Clay pots, Carton boxes, Khambha was done.

Upcycling of Plastic and E waste Workshop In JNTU on 18th September,2019; Manasa and group of Eco volunteers coordinated the workshop along with Green Waves.

Demonstration of making of Recycled Paper was organized for environment education students 16 January 2020.

Donate a Pad programme on 28 January 2020, Donate a Pad programme in Government School organized by Eco Club, NSS & Outreach in collaborations with Apna Green Products to promote ecofriendly sustainable lifestyle among girlchild studying in Government schools

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Tide Turners Plastic Challenge 2020

Tide turners plastic challenge was initiated on 05-03-2020 wherein 60-70 students and 9 students championed the challenge

The champions of Tide turner's Plastic Challenge also represented our college at National Youth Summit 2020 where the renowned speakers were a part of this program and encouraged the young generation to take care of this planet which was overwhelming.





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St.Ann's College students of Eco club and Outreach / Rotaract Club are winners of Round Table Competition organised by St.Joseph college on February 24, 2020

The British Deputy High Commission, Hyderabad hosted a roundtable for college students on 24 February (Monday) from 2 pm onwards around the theme of 'Climate Change' as part of a series of events planned for this year in the Telugu states, ahead of the COP26 Summit to be held in Glasgow, UK in November 2020. This programme was organized as part of Chevening Alumni funded activity titled 'Chevening Conversations'.







Projects done by environment education students

Preparation of Natural colours., Preparation of recycled paper i) From Newspaper

ii) From Banana fibre, Composting flower waste, Kitchen waste Composting

Designing a lamp from e-waste, Upcycling to create a robotic arm, Working model of Smoke absorber.



Eco quiz Program:

In view of World Ozone Day observed on 16th September2019, Eco Quiz was organized on19th September at 1:30 to 3:00 pm in our college premises to create awareness on Global warming, and significance of protecting our Biodiversity





ECO QUIZ-WINNERS

Projects done by environment education students

Innovative Projects

- 1. Making Natural colours from fruits and vegetables
- 2. Bioplastic preparation from starch
- 3. Mosquito repellent Incense stick from flower waste and leaf waste
- 4.Designing Bags and Doormats from old clothes

In addition to Various eco-friendly activities, Various courses on environment like Environment management (Add on Course), Science and environment (Compulsory course at undergraduate level), Environment Education u as Co - Curricular Activity course are introduced.

Green Chemistry has been incorporated for BSc III Year Semester V and VI as elective, in addition to green synthesis in practical chemistry - by Department of Chemistry

The Department of Chemistry and Royal Society of Chemistry (London)(LSD) has promoted cloth bags during the occasion of International Year of Periodic Table IYPT 2019.

To minimize the chemical waste the department has downsized the usage of chemicals by introducing micro burettes, pipettes, conical flask, Standard Flask and Porcelain spot plates in Practical's.

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Club level activities

NSS

180 NSS Volunteers participated in the Rally on open defecation free society- observance of swacha pakwada on 08/08/2019





Seed Ball And Clay Ganesha Idol Making

NSS in collaboration with Eco Club & Green Earth organisation conducted a seed ball activity on 29/08/2019 where volunteers were asked to make balls out of fertile mud and insert seeds of different varieties of plants which could be then strategically placed at different locations and upon rainy season would grow into plants. More than 200 volunteers participated in this activityStudents were demonstrated and also had a hands-on experience on how to make eco friendly ganesha idols using clay.

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Rally On Swachh Bharath

180 NSS Volunteers participated in the Swatch Bharath Rally 05/09/2019

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జెమెరాలపై పోలీసు సిబ్బంబి ఆవగాహన కార్యక్రమం
నీర్వహించారు. ఈ కార్యక్రమంలో ఇన్స్పేషిక్టర్ శంకర్, సీసీ
జెమెరాల ఇన్చార్జి బాబురావు, సాయినాథ తదితరులు
పాల్గొన్నారు -జియాగూడ

స్వచ్ఛ భారత్ కార్యక్రమంలో ఖాగంగా సోమవారం
మెహిటిపట్నంలో సెయింట్ ఆస్ప్ కళాశాల ఎన్ఎస్ఎస్
విద్యాల్థినిలు ర్యాతీ నిర్వహించారు. ఈ ర్యాతీలో స్వచ్ఛ భారత్,
పలిశుభ్రతపై ప్రజలకు విద్యాల్థినిలు అవగాహన కళ్ళించారు.
-మెహిటిపట్నం



Session on Menstrual Waste Management in collaboration with Apna Green

The session was conducted by Mrs.Aruna on 19/09/2019. It's aim is to provide awareness on Menstrual Hygiene Management. It lso provides organic pads. Session was very interesting.





Designed a huge bag made of old flexi banner and hung it in the quadrangle area of the college to encourage students to drop their plastic waste in it and to be recycled later.the plastic was donated to green waves NGO for recycling.

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Harita Haram

NSS volunteers participated in Haritha Haram programme in the college on 27/09/2019.





Visit to karunalayam. Also, Budvel-Cleaning and Gardening Activity

58 NSS Volunteers volunteered at the Karunayalm on for the whole day on 12/02/2020 carrying out several activities such as cleaning, gardening and interacting with the mentally challenged inmates of the karunalayam. Also donated 9,562 rupees to the Karunalayam collected through the food stall organized in the college.

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Karunalayam Ashram, Budvel

NCC

30 cadets participated in **poster competition** on **Swachh Bharat** on 22nd August 2019 at St. Ann's College for Women. The Cadets were appreciated by Dr. Sr. P Amrutha, Principal & Dr. Smitha Asthana, Dean of Academics & IQAC Coordinator for their active participation.

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Department level Activities

Department of Nutrition

- Lot of e-content in the classroom teaching is used and students are encouraged to use the e-platform instead of using hard copies.
- The unused print outs are reused for rough work.
- Steel bottles are used instead of plastic bottles for drinking water.
- The food prepared by the girls during the nutrition practical class is consumed by them,
 faculty and support staff and food wastage is minimized.
- The kitchen waste generated as part of the practical is used for composting and biogas
- As part of the green initiative, Green greetings are presented to honour the invited speaker in various events.
- All the dry waste like papers, books etc are given to the eco club for recycling.

Department of Biotechnology

- We, the department conserve energy by switching off all lights, fans and other equipment when not in use.
- Hazardous wastes are disposed of separately by following the biosafety rules.
- e- waste that is generated is deposited in the department ICT.
- Plantation of saplings was done as a part of activity under Eco CLUB.
- Students and faculty of the Department organized awareness programme on Personal Hygiene "Menstrual Hygeine" Little Paradise high school, Golconda, Hyderabad

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Department of Botany

To sensitize students on the importance of Biodiversity and its conservation, the department conducted an awareness programme at Sri Chaitanya High School, Santosh nagar Colony, Mehdipatnam on 31st August 2019.





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Department of Biochemistry

- The Department conducted Awareness programmes and survey on Menstrual Waste management- and Eco-friendly alternatives for School and College students
- Also it's a regular practice to collect dry waste and hand it over to ITC for recycling
- E-waste Drive was also organized to collect e waste from students and also from department and handed over to Green Waves environmental solutions
- Swacchata hi Seva campaign; Collection of plastic, old clothes, upcycling waste are activities done under this campaign wherein department members and students participated actively
- Tide Turners Plastic challenge.

Department of Computer Science

Department is working with ICT center to spread environment consciousness and awareness regarding dangers of e-waste and participating in their e-waste management program by collecting electronic waste.

Department of Physics Electronics

- Servicing and replacing the old equipment of the laboratories has been taken up ,which is otherwise consuming more power.
- The department has taken up the e-5 programs as an initiative towards saving paper.
- The departmental notices are being sent through emails, Google class rooms to all the students.
- The newsletter is posted on departmental blog online
- Online Feedback Mechanism
- Online Quiz using Google forms
- The invitation for various departmental activities like Intercollegiate competitions, National Workshop etc to faculty and students of other colleges is done digitally through social networking media like Whatsapp, email, facebook etc.
- Simulation of experiments when the need was felt to replace the old equipments/ICs with new ones.
- Exploration of Virtual labs instead of apparatus of very high cost.

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Department of Zoology

A stall was put in the college campus in the first week of August by the student voulenteers to sell the packets of vermicompost at a very reasonable price and volunteers motivate the people to use vermicompost instead of chemical fertilizers.

Sale of Vermicompost-LLIVOM -Live and let live with vermicompost-an organic manure







Field Trips

A field trip was organized for BSc III Year RCZ and BZC, GCZ students to "Mahavir Harina Vanasthali National Park", Hyderabad on 10th January, 2020.

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Field trip to MAHAVIR HARINA VANASTHALI NATIONAL PARK

A Field trip was organized for BSc I Year RCZ and BZC, GCZ students to "Nehru Zoological Park", Hyderabad on 4th January 2020.





FIELD TRIP TO NEHRU ZOOLOGICAL PARK, HYDERABAD

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Publications by faculty on Environment related issues

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Zooplanktons as bioindicators of pollution in fresh water lakes of Hyderabad

Authors:Dr.Tasneem Jahan, Dr.K.Tabassum

Keywords: zooplanktons, bioindicators, foldscope, pollution.

<u> Abstract</u> :

Water quality in tropical reservoirs can be indicated by using specific species of cyclopoid as indicators. In this review, the concept behind Bioindicators and plankton, with particular emphasis on their potential to be used as Bioindicators for water quality assessment. The zooplankton were identified to genus or species level under a **foldoscope**.

Introduction

Bioindicators are living organisms such as plants, planktons, animals, and microbes, which are utilized to screen the health of the natural ecosystem in the environment. They are used for assessing environmental health and biogeographic changes taking place in the environment. Each organic entity inside a biological system provides an indication regarding the health of its surroundings such as plankton responding rapidly to changes taking place in the surrounding environment and serving as an important biomarker for assessing the quality of water as well as an indicator of water pollution.

Since planktons are profoundly sensitive to natural change they are best markers of water quality and particularly lake conditions. One of the reasons planktons are being considered in lakes is to monitor the water quality of the lake when there are high centralizations of phosphorus and nitrogen; these centralizations may be indicated by certain planktons reproducing at an increased rate. This is evidence of poor water quality that may influence other organisms living in the water body. In addition to being a health indicator, planktons are also the fundamental sustenance for many larger organisms in the lake. Thus the plankton is key to the aquatic organisms, as both an indicator of water quality and as the main food source for many fishes . (Thakur et al. 2013) .

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ECOLOGICAL STUDY REPORT ON MUSI RIVER

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Abstract: It is the tributary of Krishna River in the Deccan Plateau which flows through the state of Telangana. It was known as Muchukunda River in earlier days. Hyderabad stands on the bank of this river which divides the city between the old and the new. The river originates in Ananthagiri Hills near Vikarabad. The Purana Pul is the oldest bridge over the river in Hyderabad. Himayat Sagar and Osman Sagar are the two dams which are constructed over the river. It rises in the Ananthagiri hill in Ranga Reddy district. Vikarabad is the birthplace of Musi. The Purana Pul was constructed in 1579 A.D.during the reign of Ibrahim Qutub Shah. On 28 September 908, Musi River was the reason for the devastating floods in Hyderabad.

Key words: Musi River, Pollution, Floods, Degradation

Introduction:

There is hardly any water flowing into the Musi. The water flows downstream very quickly during rainy seasons. Water can be seen only at the kath was or at the reservoir at Suryapet. Whatever the water that is found in the riverbed in the form of a small stream is actually the sewage /drainage from Hyderabad city. Large parts of the urban area do not have underground sewer systems. Either the settlements have septic tanks which are not the preferred system of disposal from a long term perspective or the sewer lines are combined with the storm water lines. Thus many natural storm water drains have been actually carrying domestic sewage into the river. Several villages downstream of the city along the Musi irrigate their fields with the water (ie. a cocktail of industrial effluents plus domestic sewage) from

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Department of Botany

Ann Garden Harvest Department has put up a sale of its garden harvest "Ann Garden Harvest" on 20.7.2019. Both staff and students had an opportunity to pick fresh produce and medicinal herbs.

Herbal Product Sale - Students of Herbal Medicine and Beauty Care (Botany COC) prepared the herbal product and organized a sale on 5.02.2020. There was a overwhelming response from staff and students.

Earn While You Learn Program - Students of B.Sc. final year were taught the technique of mushroom cultivation on 4th Jan 2020 as a part of earn while you learn program.

Department of Chemistry

As part of International year of periodic table, the Department of Chemistry in association with Royal society of Chemistry (London) Local Section Deccan has successfully organized a Grand display of Periodic table involving 125 undergraduate Students of BSc., Life science stream on 13th December 2019. All the participants took part in grand showcase actively with innovative ideas. The periodic table was displayed in Basketball ground. Director of Tata Institute of Fundamental Research, Hyderabad, V. Chandrasekhar, who addressed students, emphasised on the significance and impact of Periodic Table on mankind. 111 112 Secretary RSC-LSD V. Peesapati, Principal P. Amrutha, Head, Department of Chemistry, Dr.K.R. Radhika, Mrs.C.Vijayavalli(ACOE) and Dean Academics, IQAC Coordinator, Dr.Smita Asthana took part in the event that was held in Hyderabad

Prof.V.Peesapati distributed RSC Cloth Bags to all the participants as a part of promoting bio-degradable cloth instead of plastic. Audience enjoyed watching the human periodic table. The department also conducted a workshop on the occasion of IYPT in association with Royal society of Chemistry-LSD, in which around 80 students took part in representing periodic table in different forms. The competition was followed by quiz and puzzle rounds by Prof.V.Peesapati,Secretary -RSC

Awareness on conservation of Nature

Awareness on conservation of Nature, Wild Life, Documentary Screening: Dhwani volunteers, an NGO run by the Department of Political Science participated in the awareness walk on conservation of nature on 2nd October, 2019 at Nehru Zoological Park, Hyderabad.

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Awareness Programme on "Eco Friendly Ganesh Idols": Dhwani Volunteers took part in the programme and helped in organizing a competition in spreading awareness of making Ganesha Idols eco friendly at Telangana Pollution Control Board and JawaharBalbhavan at Public Gardens, Hyderabad

Promoting awareness on the conservation of Tigers: Dhwani volunteers took part in an awareness walk organized by an NGO, STARS at Nehru Zoological Park, Hyderbad on 19th July, 2019 as a part of International Tiger Day.



Department of MBA Swachhata Hi Sewa Campaign was launched by the Government of India from September 11, 2019 to October 2, 2019 with the aim to eliminate use of plastic and to dispose plastic waste. Campaign is launched, commemorating the 150th birth anniversary of Mahatma Gandhi and fourth year anniversary of Swachh Bharat.

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Swacchata Hi Sewa Campaign PG Departments

As a part of Swacchata Hi Sewa Campaign, Department of MCA organized campaign in the college from 11th to 16th September 2019. MCA first year students went around the campus and explained about the disadvantages of using plastic, how it is affecting the environment and what precautions should be followed to save mother Earth.



Department of Botany A field trip was organized on 26th August, 2019 to Dhulapally forest for II year B.Sc Botany students. Around Fifty students participated in the trip where they had an opportunity to explore the flora of the forest.





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Year 2019-20 Brochures and Notices

