

St. Ann's College for Women

(Autonomous), Affiliated to Osmania University
Accredited by NAAC with A⁺ Grade (3rd cycle), CPE by UGC

Mehdipatnam, Hyderabad.



CRITERION – VII

Institutional Values and Best Practices

7.1.3 Facilities in the Institution for the management of the degradable and non-degradable waste



Activities conducted -Waste Management 2018-19

Design Your Eco bag contest



Date: July 3rd 2018

Venue: St. Ann's College For Women Agenda: Creating awareness on Beat Plastic Pollution

Target Group: Faculty and students of St. Ann's

Club Members: Dr.Swapna From Genetics Dept. Sushma From Biotechnology Dept

A.M.Sylaja Biochemistry Dept

Report:

3 rd July 2018 is observed as International Plastic Bag Free Day. A Plastic bag takes 500 to 700 years to degrade completely. But The time we use the bag is only say around 20 to 25 min and then we dispose it off. To heighten the awareness on this very real and pressing issue, Dharini Eco club of our college organised "Design Your Eco Bag Contest" open to both Faculty and students. Design Your Eco bag contest was organised by the Eco club of our college, on July 3 rd. ,2018 which is observed as International Plastic Bag Free Day. Both students and faculty actively participated in the contest. Bags were made using cloth, paper, gunny bag material, leaves, rice bags, old dupattas, old jeans etc. Lot of creativity and innovation was seen in the designing of the bags. Mrs. Meena Patangey, Dean Administration and HOD, Department of Nutrition won the First prize by designing hand stitched cloth bag which can be used dual sides using old cloth. Second prize winner is Mrs. Aparna from Computer Science Department for designing a bag with used rice bag and old dhumatta. Third prize

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winners were Ms Rupa Devi ,HOD Department of Biotechnology and SriLakshmi from Department of Chemistry for designing bags using cardboard and paper, natural dry leaves.

Electronic waste or **e-waste** describes discarded electrical or electronic devices. Used electronics which are destined for refurbishment, reuse, resale, salvage recycling through material recovery, or disposal are also considered e-waste. Informal processing of e-waste in developing countries can lead to adverse human health effects and environmental pollution.

Society today revolves around technology and by the constant need for the newest and most high-tech products we are contributing to a mass amount of e-waste. Since the invention of the iPhone, cell phones have become the top source of e-waste products because they are not made to last more than two years. Electrical waste contains hazardous but also valuable and scarce materials. Up to 60 elements can be found in complex electronics. The processes of dismantling and disposing of electronic waste in developing countries led to a number of environmental impacts as

1. Lead, barium and other heavy metals leaching into the ground water and release of toxic phosphor
2. Air emissions and discharge into rivers of glass dust, tin, lead, brominated dioxin, beryllium cadmium, and mercury
3. PAHs, heavy metals, brominated flame retardants discharged directly into rivers acidifying fish and flora. Tin and lead contamination of surface and ground water. Air emissions of brominated dioxins, heavy metals, and PAHs.
4. Emissions of brominated dioxins, heavy metals, and hydrocarbons

Recycling is an essential element of e-waste management. Properly carried out, it should greatly reduce the leakage of toxic materials into the environment and mitigate against the exhaustion of natural resources. However, it does need to be encouraged by local authorities and through community education. Properly disposing of or reusing electronics can he prevent health problems, reduce greenhouse-gas emissions. Reuse and refurbishing offer a more environmentally friendly and socially conscious alternative to downcycling processes

Keeping this in view, Eco club of our college collaborated with Green Waves Environmental solutions, a Waste Management Company Green Waves Environmental Solutions, collects and dismantle electronic waste from residential, commercial and industrial areas of the state and send it to the Mumbai based recycling company - Eco Reco E waste recycling limited. Green Waves is the first unit in Andhra Pradesh that has been

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authorized to do so and is also conducting awareness programmes for advising people drop their electronic waste in a special bin which are being provided in certain places. Potluri Anil Chowdary, the founder of Green Waves, did his Masters in Environmental science, and MS in resource management in New Zealand wanted to use his expertise for the benefit of the society. Anil learnt about recycling methods and protecting the environment from hazardous metals and materials, while in New Zealand. With this objective, he launched the Green Waves Environmental Solutions in 2016 to collect E-waste and handling unit. The e-waste collected from most probable sources are segregated and sorted. Specific storage bins and storage racks are provided by Green Waves for proper storage of e-waste. While specific materials are sent to registered e-Waste recyclers for treatment and recovery, fragments of plastic, ferrous and nonferrous material, glass are sent to secondary recycling industry. After its recent launch of the mobile app 'Rebyte' followed by installation of 30 e-waste bins at various pick-up points, Green Waves Environmental Solutions aims at intensifying safe e-waste disposal by doubling up its reach.

The challenge we face is streamlining the collection of abandoned gadgets in a scientific manner as it comprises toxic components such as lead, cadmium and chromium. By partnering with the NGOs, we are trying to focus on two aspects - creating awareness on the e-waste disposal in schools, colleges and colonies by educating them on implication of dumping abandoned electronic waste along with the normal litter and better e-waste management by picking up e-waste at various points," says P. Anil Chowdary, managing partner of Green Waves. Since the response for the Rebyte app is mostly from the youth and those who are tech-savvy, Mr. Anil has indicated that there is a need to get close to the general public and channelise the e-waste collection effectively.

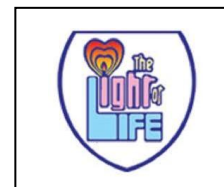
"Awareness drive is a step towards this endeavour. " So, in this guest lecture Mr. Anil had highlighted the importance of electronic waste management, and how the youth should be actively involved in this awareness drive , so as to work collectively in recycling e- waste. At the same time these youth also can further educate or create awareness in their surroundings to offer a more environmentally friendly and socially conscious alternative to downcycling processes

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Guest lecture on E waste Management

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E waste Management-Awareness Drive

Date: 22 and 23rd January 2019

Venue: St. Ann's College For Women

Agenda: e -waste collection

Organised by: Eco club volunteers in Collaboration with Green Waves Company

Resource person: Mr.Verma from Green Waves Environmental Solutions.

Target group: students and Faculty of St. Ann's College For Women

Report: Awareness drive is a step towards streamlining the collection of abandoned gadgets in a scientific manner as it comprises toxic components such as lead, cadmium and chromium .and also educating them on implication of dumping abandoned electronic waste along with the normal litter and better e-waste management by picking up e-waste at various points.



Eco-friendly Bags with Newspaper:

Students of first year were trained to make Bags with old Newspapers. Malavika and Yashaswi from BZC final year, volunteer of Eco club trained the first-year students in their CCA class hours. These eco-friendly bags were used during sale of Clay idols in the college campus.

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Kitchen waste composting

Date: on August 31 ,2018

Venue: St. Ann's College For Women

Agenda: **Demonstration on composting Kitchen waste**

Attended by: Eco club volunteers and CCA EE students

Resource Person:A.M.Sylaja, Convenor of Dharini ECOCLUB

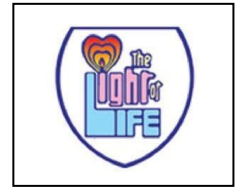
Target group: students of St. Ann's College For Women

Report:

An awareness programme on "Kitchen waste composting was organised to emphasize on the need for a clean and healthy environment i.e., garbage free city. Charts /Posters were displayed and videos were screened on segregation of wet and dry waste, how important is this step towards clean environment was emphasised. Approx. 70 students of Eco club were actively involved in this session. Students realized the importance of cleanliness and recycling of kitchen waste into valuable fertilizer, which is used for the development of green city. In view of the precious wet waste that can potentially become black gold, remains unusable junk inside our landfills and in addition it releases harmful toxin gases due to anaerobic decomposition, the activity was much needed and helpful.

Importance of Waste segregation and how the wet waste generated in our Kitchens can be converted into compost by using simple bins, carton boxes or earthen pots was demonstrated to all the students of first year CCA class

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Kitchen waste composting In Bins

Upcycling Waste Materials

Date: July, August, September 2018

Venue: St. Ann's College For Women

Agenda: **Beat Plastic Pollution-Upcycle waste into creative art pieces**

Done by: Eco club volunteers and CCA EE students

Resource Person: AM. Sylaja, Convenor of Dharini Eco club

Report: Beat Plastic Pollution” being the theme of the year,

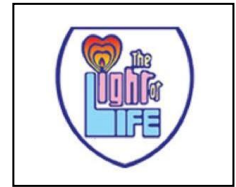
Upcycling of waste materials and plastic bottle crafts were

done by the club volunteers Plastic Oil cans were cut and

designed into planters and painted beautifully Car Tyres were

used to make Garden frogs .Mineral water cans and Soft drink

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bottles were used in crafting them into Wildlife like Giraffe

And Elephant.



Paper Bag Making Activity

Students of first year were trained to make Bags with old Newspapers. Yeshaswi from BZC final year, volunteer of Eco club trained the first-year students in their CCA class hours. These eco-friendly bags were used during sale of Clay idols in the college campus

International Kite Festival; as part of the celebrations Green waves Environmental solutions put up Dry waste collection stall at Secunderabad Parade grounds. Our students volunteered for the event and actively took part in collection of dry waste during the event and also creating awareness on clean surroundings. Alekhya, Manasa, Yasmin and Renuka volunteered for the activity.

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Wellbeing Out Of Waste: WOW bags were distributed to students and also faculty in various departments to collect Dry Waste. Collected waste is handed over to ITC Paper board for recycling.

CCA students of Environment Education are working on various projects like:

Plastic Bottle Crafts: A group of 10 students from B.A and 10 students from B.Com F.T are worked on upcycling plastic bottles and converting them into useful and decorative items.

Preparation of Natural Colours: B.Sc NCB and MCB students 10 of them have prepare Natural colours from dry flowers, fruit peels, and other natural materials.

Kitchen waste composting: Two groups of students from BZC &GCZ and GCM & BBC have worked on composting Kitchen waste using Carton Boxes, Khambha, Mud pots etc.

Making Recycled Paper from used and old newspapers: B.Sc MPCs students five of them and B.Com Computer students are working on Making recycled paper using old and used papers.

Best out of Waste: Students of B.Sc NCB and GCM have created useful items from junk and waste material.

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Biodiversity project: B.Com and BBM students have worked on this project wherein flora and fauna of a garden/zoo was clicked and identified

GHMC Swachh Bharath – Swachh Survekshan: 21 January, 2019 Members of The Greater Hyderabad Municipal Corporation visited our college as a part of the Swachh Bharat drive. The event saw, in an attempt to grab the attention of the students, started with an interactive session conducted by RJ Vijju from Radio Mirchi. The initiative was taken to let the youth in the city know in depth about the Swachh Survekshan- a prelude to encouraging cities to improve urban sanitation. The students enjoyed the presence of the RJ which helped them connect better to what was being conveyed.

Department of Statistics

Dry waste collection

The faculty of the department is putting the efforts by training few student volunteers to create awareness about segregation of dry waste and wet waste. In turn these volunteers educate the other students by using charts.

The students and faculty collected around 80 kgs. of dry waste and gave to Dharani club of the college, and in turn given to ITC for recycling. This would reduce the cutting of trees, amount of chemicals and water used in paper manufacturing, contributing to the protection of environment.

e-Waste Disposal

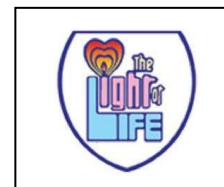
Electronic - waste such as, floppies, CDs , mobile chargers and any other such items are being properly disposed by giving to Dharani club of the college

Department of Biochemistry

Out Reach Activity on Menstrual Waste Management

The Department conducted an Awareness programme on Menstrual Waste management- and Eco friendly alternatives for School students at Raidurgam Government high school

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Menstrual Waste Management - in our college

One day Training Session on Menstrual Hygiene Management was organised on 17th August 2018 by SUVIDHA initiative of MAMATA TRUST in Infosys Campus, Gachibowli



Training Session on Menstrual Hygiene Management

Department of Zoology

Vermicomposting

With the help of student volunteers, the faculty gave introduction of vermicomposting to the under graduates students of our college and also to the school students of Bojagutta.

This is an awareness and training programme in organic farming using vermicompost. It is aimed at providing an awareness and hands on experience to the students to take up organic farming in their premises. The stall was also put in the college campus in the first week of August by the student volunteers to sell the packets of vermicompost at a very reasonable price and volunteers motivate the people to know the importance of vermicomposting.

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Hazardous Waste Management @ Microbiology Department

Biomedical & Chemical Waste is generated and poor management of these can cause various health issues to individuals. Awareness among students and technical staff is continuously created to dispose it in safe manner by using Good Lab Practices.

Specimens, cultures and other biological material that are used in microbiology lab will be made into non-infectious before being discarded. Decontamination is carried out by chemical disinfectants and autoclaving. Decontamination by chemical disinfectants is usually done using Dettol. Discarded culture plates are generally autoclaved to ensure organisms in plates are killed.

Discarding of biohazardous waste of haematology experiments is done by using HI media disposable bags.

Hazardous chemicals used like Ethidium bromide when used in molecular biology lab sessions are collected in plastic zip-locking bags and then discarded.

Videos related to hazardous waste management in microbiology lab are screened to students to create awareness and ensure safety.

Posters are designed and displayed in lab related to same theme.

Department of Botany

Intercollegiate competitions During Ann festa celebrations the Department conducted intercollegiate competitions on Vegetable carving, best out of waste and making greeting cards.



Recycling: making the best out of waste

Department of Chemistry (PG)

As part of outreach activity, Department of Chemistry (PG) visited Govt primary Jham sing model Cluster School, Gudimalkapur and interacted with school children highlighting the basic aspects of

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chemistry. Promotion of cloth bags by the department creating awareness about the sustainable environment.

Awareness session on Menstrual Hygiene Practices

Date: November 9 th 2018

Venue: St. Ann's College for Women

Agenda: **Menstrual Hygiene Practices**

Attended by: Eco club volunteers and CCA EE students

Resource person: Dr.Arunmai from Youth For Seva

Target group: students of St. Ann's College For Women

Report:

Menstruation is generally considered as unclean in the Indian society. Isolation of the menstruating girls and restrictions being imposed on them in the family, have reinforced a negative attitude towards this phenomenon. There is a substantial lacuna in the knowledge about menstruation among adolescent girls. Good hygienic practices such as the use of sanitary pads and adequate washing of the genital area are essential during menstruation. Menstrual hygiene and management will directly contribute to the Millennium Development Goal on universal education and on gender equality and women empowerment.

It is also essential for the teachers, to impart reproductive health education, including menstrual hygiene to their students. They have to be given requisite skills – usually through training or workshops.

Keeping this in view Eco club of our college organised a awareness cum workshop session for all Environment Education students, on Menstrual health and safe hygienic practices during menstruation by way of screening videos and by inviting Dr Arunmai, member of Youth For Seva organisation, who is a trained mentor in creating awareness on these issues. She spoke on taboos, restrictions and unhealthy practices during menstruation which have to be overcome through usage of sanitary pads, their safe disposal. She also emphasised on yoga and lifestyle management methods to overcome the hardships faced during those days

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Activity Name: Awareness session on Menstrual Hygiene practices

Total number of Participants:75



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Principal
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