

## Environment and Community Outreach Committee Report (2020-2021)

The Environment and Community Outreach Committee has adopted various green practices and sustainability initiatives in order to make the college environmentally conscious academic institute. Following activities were conducted by the committee during the year 2020-2021:

**1. Organic Composting and Vermicomposting:** The Environment and community outreach committee continuing with its vision to convert organic waste into nutrient rich manure with the use of Aerobins vermicomposting, harvested approximately 100 kg of organic manure. The compost produced is being used for gardening purposes and the college has become self-sustainable in terms of its compost needs for greening the campus. The college has started the vermicomposting units in 2 ways- one in a vermicompost bin and another using a pit method. Two big pits have been dug up in one corner of the college premises. The walls of these pits are cemented and the floors of the pits are covered with small pebbles and sand. Above that, a layer of cow-dung was put and the most often used species of worms i.e. Tiger Worm, also known as the Red Wiggler worm (*Eisenia Fetida*) were released in the pits. These pits are regularly filled with garden waste (all the dried leaves of the plant). To keep rodents out of the pits, the mouths are covered with wire mesh. After every 25 days, the vermicompost, with the help of sieves, is taken out and the pits are again filled up with garden waste and water is sprinkled on it. The vermicompost formed as a result of it acts as a bio-fertilizer, which is formed by earthworms feeding on biological waste (plant debris).

The compost produced by this method is odourless, clean organic matter containing adequate quantities of nitrates, phosphorus, potassium, and several micronutrients and beneficial microorganisms essential for healthy plant growth. It is an eco-friendly and non-toxic method and consumes a low energy input for composting and produces recycled biological products. The vermicompost produced by these two methods is used for gardening purposes and for the improved growth of ornamental, annual and flowering plants used for beautification of college premises.

### Vermicomposting in our college (IHE)



Vermicomposting by vermicompost bin and pit method



**Organic Composting Using Aerobin**

**2. Herbal Garden:** To revive and recreate herbal garden in college campus, approximately 16 varieties of medicinal and herbal plant saplings were planted to educate students about the importance of herbal gardening. Planting an herb garden is a wonderful way to enjoy the sights, smells and tastes of a wide variety of plants. Fresh herbs are often easy to cultivate and can grow in a small garden in the backyard, in pots on an outdoor patio or sunroom, or even in a window box inside a kitchen. Gardening is a terrific hobby and allows your senior loved one an opportunity to show his or her creativity.



**Recreating Herbal Garden with the help of Environment club students**

### **3. Capacity Building Training Sessions organized:**

- **Training session on ‘Sustainable Waste Management Practices: My 10 Kg Plastic Waste campaign’ on 5<sup>th</sup> December 2020:** A capacity building training session on Sustainable Waste Management Practices: ‘ My 10 Kg Plastic Waste’ campaign’ was organised by the committee in collaboration with Indian Pollution Control association on 5<sup>th</sup> December 2020 from 10:30 am to 11:30 am. The session was conducted by Mr. Ashish Jain, Director, IPCA wherein he briefed students about issues pertaining to single use plastic waste problems and how they are impacting our planet and our environment. In this campaign students and teachers participated to segregate their plastic waste at household level and store it separately. And as per need, IPCA collects this segregated plastic waste



and sends it to the respective recycling/ co-processing unit. Participating students and faculty were given appreciation certificates when they contributed to segregation and handover their 10 KG plastic waste generated in their homes. Through this campaign, students and faculties are trying to reduce their plastic footprint and load of plastic waste on landfills. The activity is ongoing in nature and will also be replicated in college campus once the Institute resumes normalcy post-covid pandemic. Participants were briefed about issues pertaining to single use plastic waste problems and were encouraged to participate in this mass campaign to segregate their plastic waste at household level, and send it to recycling unit with the help of IPCA.

INSTITUTE OF HOME ECONOMICS  
(UNIVERSITY OF DELHI)

Environment and Community Outreach Committee  
organising

CAPACITY BUILDING TRAINING SESSION  
ON

**Sustainable Waste Management  
Practices:**

**'My 10 Kg Plastic Waste' Campaign**

**Save the Date**  
Date : 5th December 2020  
Day : Saturday  
Time : 10:30 am - 11:30 am

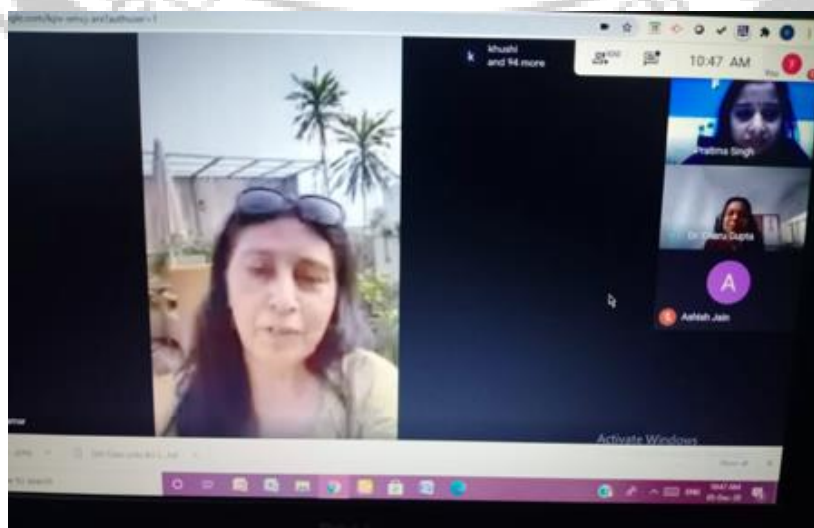
**Keynote Speaker**



**Mr. Ashish Jain**  
Director  
Indian Pollution Control Association

Target Audience:  
\* Students  
\* Teaching faculty  
\* Administration and non-teaching staff

Register at : For Further Details  
contact us at:









- **Training cum exit workshop under the project SORT on “Sustainable Waste Management Practices: Working and Maintenance of Aerobins” on 21<sup>st</sup> June 2021:** The Department of Resource Management and Design Applications and Environment & Community Outreach Committee in collaboration with the Indian Pollution Control Association (IPCA) installed Aerobins in the premises of Institute of Home Economics as part of project SORT. Under this project, waste is reduced by source segregation and is converted into nutrient rich compost through a sustainable approach of solid waste management. Aerobins convert organic waste into compost in a clean and eco-friendly manner within 40 days. The college aims to maximize use of resources through waste minimization, which results in decreased environmental pollution and reduced pressure on landfill

sites. The main objective of this project is to motivate students and staff for qualitative segregation of waste in order to increase the recycling rate of waste material generated in college premises.



The poster features a blue header and footer. The main content is on a white background. At the top left is the Institute of Home Economics logo, and at the top right is the University of Delhi logo. The text is centered, announcing a training programme on 'Sustainable Waste Management Practices: Working of Aerobins'. It lists the organizing departments and the speaker, Dr. Radha Goyal. The date and time are also provided. At the bottom, there are logos for the Institute of Home Economics, IPCA, Swarn Lata Mother's Trust, and RMDA. The bottom of the poster is decorated with a green grass border.

**INSTITUTE OF HOME ECONOMICS**  
(UNIVERSITY OF DELHI)

Department of Resource Management & Design Application  
in collaboration with  
Environment and Community Outreach Committee  
&  
Indian Pollution Control Association

Organising  
Training Programme on  
**'SUSTAINABLE WASTE MANAGEMENT  
PRACTICES: WORKING OF AEROBINS'**



**Speaker**



**Target Audience**

- \* Students
- \* Teaching faculty
- \* Administration staff
- \* Non-teaching staff

**Date:** 21st June 2021  
**Day:** Monday  
**Time:** 3:30 PM - 4:30 PM

Dr. Radha Goyal  
Deputy Director, IPCA

**Link to Join:**



**4. Two days International Conference on Environment, Health and Sustainable organised on 25<sup>th</sup> and 26<sup>th</sup> September 2020:** The Environment and Community Outreach Committee in collaboration with the Department of Biology, and Department of Physiology, IHE organized a two days International Conference on Environment, Health and Sustainable Development on 25<sup>th</sup> and 26<sup>th</sup> September 2020, wherein eminent speakers from international and national organization addressed participants on various themes like:

- Pollution and reproductive health-tomorrow's children by Dr. Asmita Patil, Additional Professor, Department of Physiology, AIMS New Delhi;
- Designing healthy urban cities: Tracing an intersectional relationship between gender and air pollution by Dr. Anshika Suri Associate Professor, Programme Manager, Mundus Urbano, Dept. of Architecture, TU Darmstadt, Hassen, Germany;
- 'Troubled Waters", Urban Development and Water Bodies : A Parasitic Relationship?' by Ms. Ann Sandra Godly Architect Toronto, Canada;
- 'Role of Biological Resources in Environment Protection and Sustainable Development in Himalayan Region' by Dr. Pankaj Sharma Senior Scientific Professional Himachal Pradesh State Biodiversity Board;
- 'Biodiversity Conservation in face of Global Changes by Dr. Sudipto Chatterjee Associate Professor and Head, Dept of NRM at TERI School of Advanced Studies;
- 'How to lead sustainable lifestyle' by Ms. Aditi Pohkriyal Associate Director- Conservation Alliances, WWF Nature;
- 'Harnessing the power of earthworms for sustainable development' by Dr. Rachna Kapila Associate Professor Department of Biology, IHE, DU;
- 'Environment and disease risk' by Dr. Manjula Suri Associate Professor Department of Physiology, IHE, DU; and
- 'Role of biofertilizers in sustainable agricultural practices to save our environment' by Dr. Arti Nigam Associate Professor Department of Microbiology, IHE, DU.





## Department of Biology

In Collaboration with

Environment Committee & Department of Physiology

Institute of Home Economics, University of Delhi

Is Organizing



# A Two Days International Conference on Environment, Health and Sustainable Development

Day 1 (September 25, 2020)

Inaugural address By

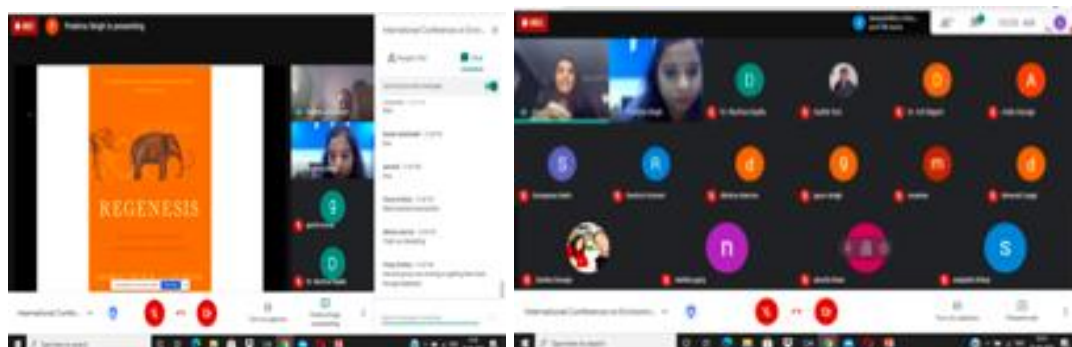
**Dr. Geeta Trilok Kumar, Director, IHE (Patron)**

**Prof. Ishan Kumar Patro, Vice-Chancellor, Ravenshaw University**

Dr. Anshika Suri Associate Professor, Programme Manager, Mundus Urbano, Dept. of Architecture, TU Darmstadt, Hassen, Germany	"Designing healthy urban cities: Tracing an inter sectional relationship between gender and air pollution"
Dr. Asmita Patil Additional Professor, Department of Physiology, AIIMS, New Delhi	"Pollution and reproductive health: tomorrow's children!"
Dr. Pankaj Sharma Senior Scientific Professional Himachal Pradesh State Biodiversity Board	"Role of Biological Resources in Environment Protection and Sustainable Development in Himalayan Region"
Dr. Rachna Kapila Associate Professor Department of Biology, IHE, DU	'Har nassing the power of ear thworms for sustainable development'
Day 2 (September 26, 2020)	
Ms. Ann Sandra Godly Architect Toronto, Canada	"Troubled Waters", Urban Development and Water Bodies : A Parasitic Relationship?"
Ms. Aditi Pohkriyal Associate Director- Conservation Alliances	
Dr. Manjula Suri Associate Professor Department of Physiology, IHE, DU	"Environment and disease risk"
Dr. Arti Nigam Associate Professor Department of Microbiology, IHE, DU	"Role of biofertilizers in sustainable agricultural practices to save our environment"

Dr. Rachna Kapila (Convener)

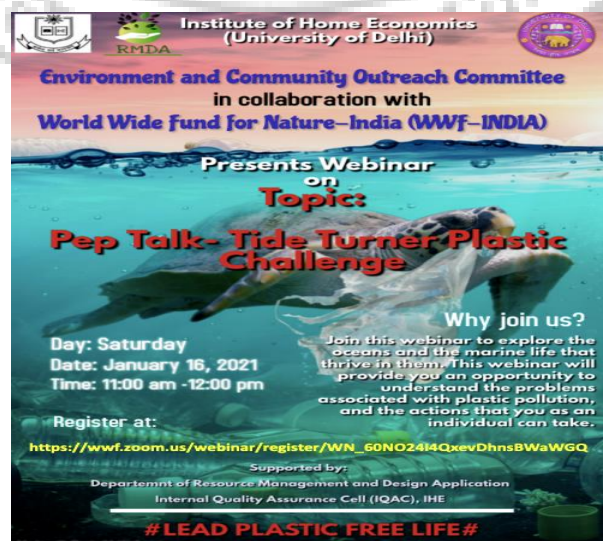
Teacher In Charge, Department of Biology, IHE, DU



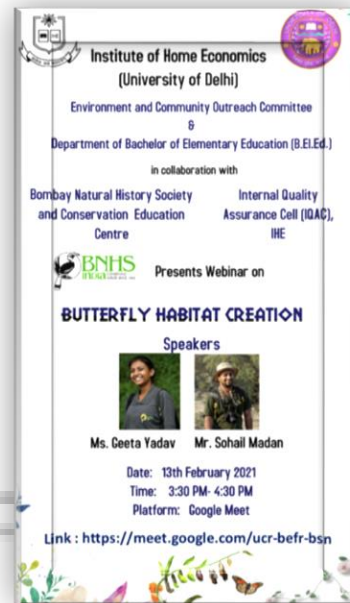


## 5. Webinars organised:

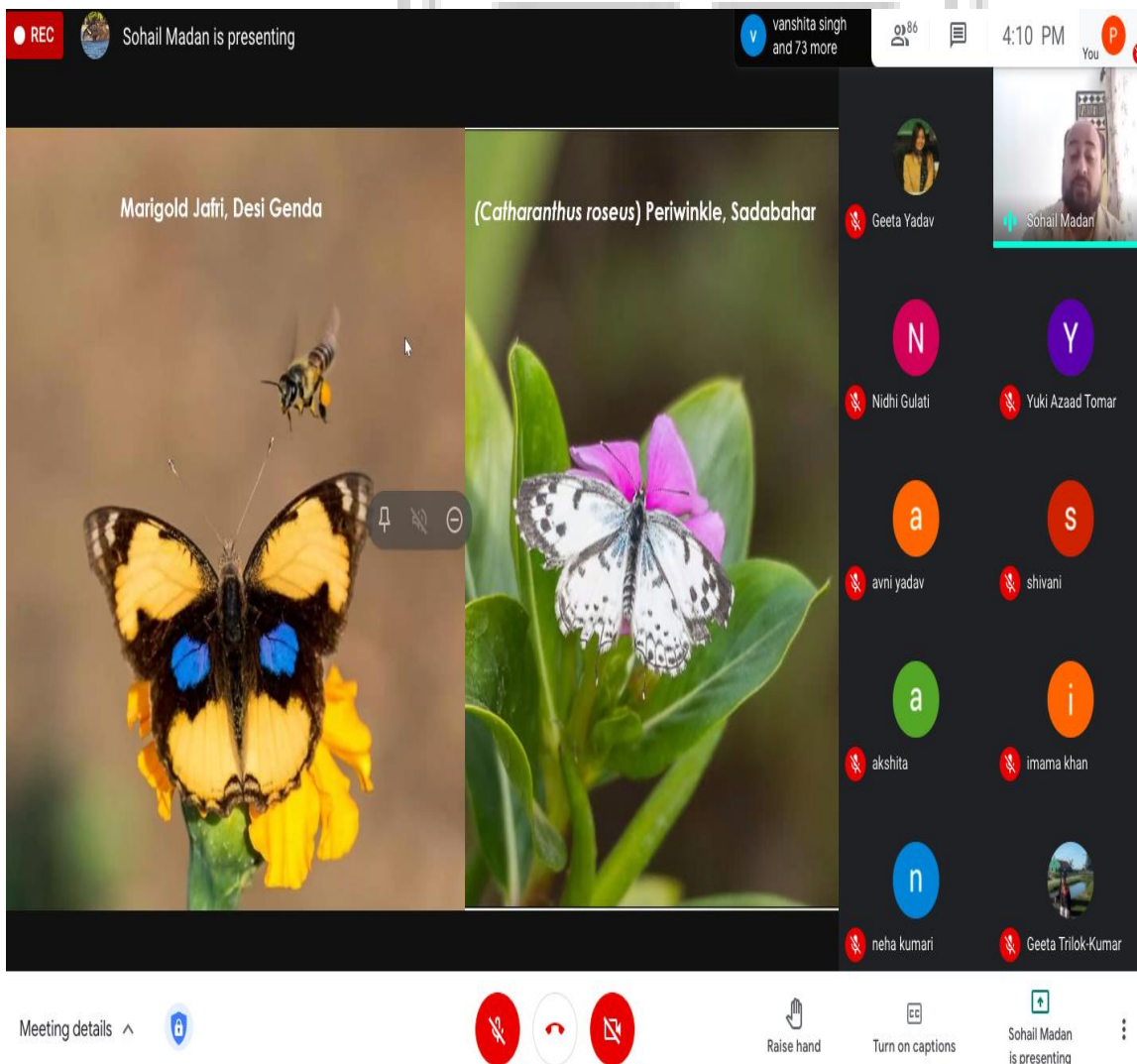
- **“Pep Talk: Tide Turner Plastic Challenge” on Saturday 16<sup>th</sup> January 2021 by WWF India:** A webinar on ‘Pep Talk: Tide Turner Plastic Challenge’ was organised on Saturday 16<sup>th</sup> January 2021 in collaboration with WWF India from 11:00 am to 12:00 noon. The Tide Turners Plastic Challenge is a global youth movement to fight plastic pollution around the world. It is designed to inspire young adults to reflect upon their plastic consumption, discover solutions to reduce this consumption, and lead change in their homes, communities, institutions and offices. The webinar provided an opportunity to participants to understand the problems associated with plastic pollution, and actions that they can take to solve problem of plastic waste. More than 200 students participated in the event and took pledge to participate in this challenge. This is an ongoing multilevel challenge wherein students participate in number of activities and get a Tide Turner Champion certificate once they complete all the levels.



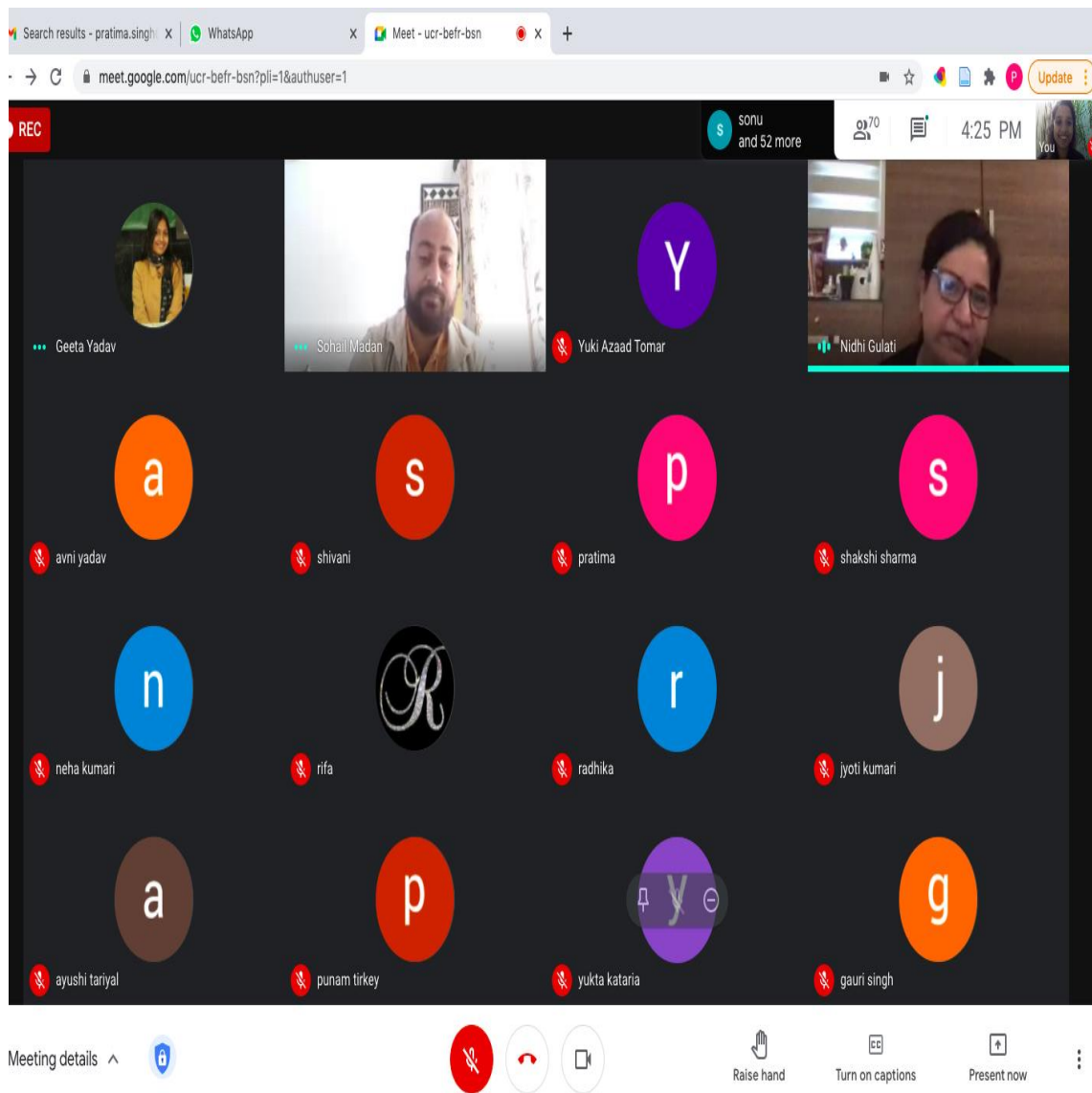
- “Butterfly Habitat Creation” on 13<sup>th</sup> February 2021**  
**Bombay Natural History Society and Conservation Education Centre:** The committee organised a webinar Butterfly Habitat Creation in collaboration with the Department of Bachelor of Elementary Education, IHE and Bombay Natural History Society and Conservation Education Centre on 13<sup>th</sup> February 2021 3:30 pm to 4:30 pm. Eminent speakers Mr Sohail Madan Ms. Geeta Yadav motivated students and staff about importance of butterflies in maintaining ecosystem and to create sustainable butterfly and pollinator habitats to declining butterfly population. Committee further envisions to create butterfly habitat patch in college campus with the help of BNHS in coming session.



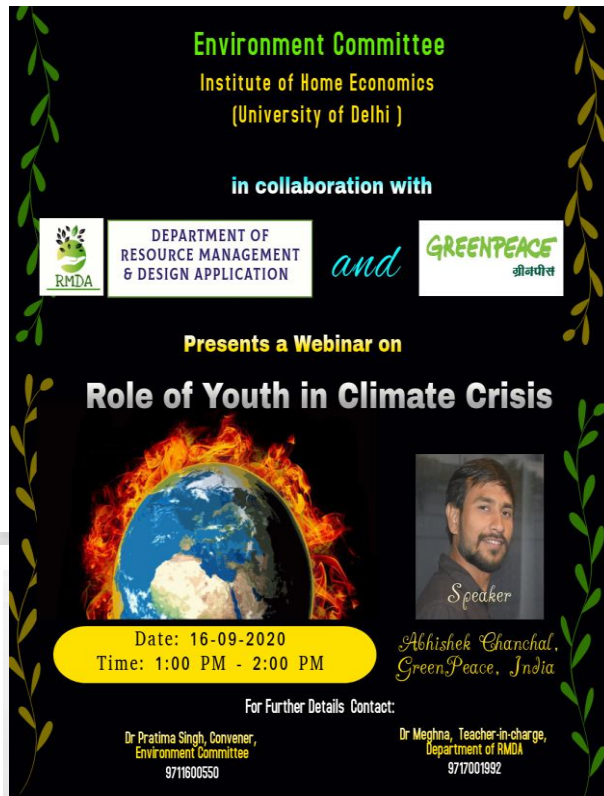
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- **“Role of Youth in Climate Crisis” on 16-09-2020 by GreenPeace India:** A webinar on role of youth in climate crisis was organised on 16-09-2020 from 1:00 pm to 2:00 pm wherein, renowned environmentalist ‘Mr. Abhishek Chanchal’ from GreenPeace India addressed faculty and students about importance of participation of youths in environmental conservation and protection. He showed his concern about climate change and discussed how students can participate in various activities in college and at household level to constructively channelize their energy and potential to safeguard their environment and make a difference in the fight against climate change.



## 6. Mass Campaigns and plantation drives:

- **Online plantation drive ‘Adopt a plant campaign’:** ‘Adopt a plant campaign’: The activity was conceptualized, managed and organised by the student volunteers with the help of committee members and Department of RMDA, wherein, large number of students adopted medicinal plants and took pledge to take care of them for their sustainable growth.





**Mass Pledge Campaign on 'I Pledge to Protect My Environment'** : Students took mass pledge to protect their environment by bringing in sustainable changes in their lifestyle by adopting a sustainable lifestyle choice like, adopting nutritional and medicinal plants and using it, saving water, reusing glass bottles, buying less cloths, saving electricity etc.



**“My 10 Kg Plastics Waste” Campaign run by IPCA:** In this campaign students and teachers participated to segregate their plastic waste at household level and store it separately. And as per need, IPCA collected this segregated plastic waste and sends it to respective recycling/ co-processing unit. Participating students and faculty are given appreciation certificate once they contribute to segregation and handover their 10 KG plastic waste generated in their homes. Through this campaign, students and faculties are trying to reduce their plastic footprint and load of plastic waste on landfills. The activity is ongoing in nature and will also be replicated in college campus once the Institute resumes normalcy post-covid pandemic.

Following are the details of the students who participated actively and have done outstanding work in collecting plastic beyond 10 kg by creating awareness and enforcing their society members to join hands in this campaign to save our mother earth.

Name	Course	Section	Year	Phone no.	Plastic Collected
Bhawna Mishra	Bsc. pass Home science	H	1st	7011150951	10 Kg
Shivani	Bsc. pass Home science	H	1st	8287851249	12 Kg
Divya	Bsc. pass Home science	H	1st	9582843204	18 Kg
Madhu	Bsc. pass Home science	H	1st	9625560498	9 Kg
Dr Charu Gupta	Faculty			9810404641	12 kg
Dr. Pratima Singh	Faculty			9711600550	15 Kg







- **“Tide Turners Challenge” run by WWF:** The Tide Turners Plastic Challenge is a global youth movement to fight plastic pollution around the world. It is designed to inspire young adults to reflect upon their plastic consumption, discover solutions to reduce this consumption, and lead change in their homes, communities, institutions and offices. More than 200 students participated in the event

and took pledge to participate in this challenge. This is an ongoing multilevel challenge wherein students participate in number of activities and get a Tide Turner Champion certificate once they complete all the levels. Total 8 students have completed this Tide Turner Challenge and as a committee we are really proud on the students who have completed this challenge.



- Creating Green Vertical Patch in college with the help of Tears of Earth NGO:** Committee also collaborated with the Department of RMDA for creating a green vertical patch in college by using old plastic bottles. This initiative was supported by Tears of Earth NGO. Students collectively constructed vertical garden by using old plastic bottles, cutter and ropes.







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- **Under its greening initiative, approximately 100 planters containing different plant varieties were added in college campus:** Committee has been working hard for greening college campus. In pursuance of its role in adding plants for environment protection, approximately 100 planters (pots) containing air purifying plants such as acacia palm, spider plant, money plant etc. were added to the college campus and vertical gardening is soon to be implemented for which pots and plants have been already procured.



**7. Achieving Energy Efficiency through Solar Lights:** Solar lighting has become a cost-effective and easiest solution for many outdoor lighting needs. Innovations in LED, battery operated products and solar power technologies have made it possible for colleges campuses to reduce lighting installation costs and reduce electricity bills through these energy efficient sustainable lighting systems.

In order to minimize carbon footprint of college and become an environmentally conscious academic institute, college has installed 22 solar lights in its premises as sustainable replacement for traditional street lights with the help and support of Innovative Power Solutions, Safdarjung Enclave. These solar lights are the most recent addition to the sustainable initiatives in college with motto of making campus green. This is the first baby step that our college has taken towards capitalizing renewable energy for a sustainable tomorrow. Solar lighting is pollution free and does not emit any kind of harmful gases in the environment which makes it a worthy option to install.

The Environment and Community Outreach Committee and Department of Resource Management & Design Application, IHE inaugurated solar lights in college campus and Sustainable Initiative in IHE. Solar light is absolutely pollution free and does not emit any kind of harmful gases in the environment which makes it a worthy choice to install. Solar energy is a renewable power source that is almost available every day of the year even when it is cloudy. So, that means you can use solar lights anytime even when the weather is not supportive. One of the best reasons to use these lights is the reduction in the extravagant bills. They also require very low maintenance charges which trigger more savings.









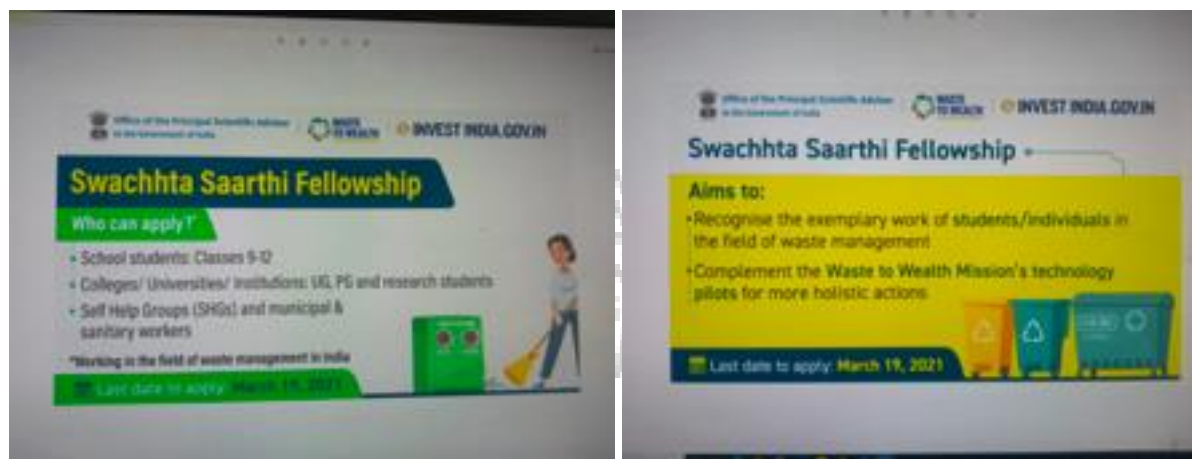


**8. Participated in the 63<sup>rd</sup> Annual Flower Show** of the University of Delhi held on 5<sup>th</sup> March 2021: As a major outreach activity, the University gardens hosts Annual flower show during February-March. The colourful flowers have been presenting a visual treat for the connoisseurs since the past 63 years. Seasonal and exotic flowers, Bon-sai trees, foliage plants, cacti, succulents, and ferns are all a part of the two-day festival.


The Flower Show features competitive entries in multiple categories and sub-categories of plants. In addition, special stalls on educational outreach in nature conservation, unique flora and environmental restoration efforts ongoing at Biodiversity parks are popular with visitors. Events like arrangements of dry and cut flowers; painting and photography competitions on nature-related themes, and street plays on contemporary social issues enable participants to showcase their artistic acumen. The Environment and Community Outreach committee, IHE participated in the 63<sup>rd</sup> Annual Flower Show of the University of Delhi held on 5<sup>th</sup> March 2021 at Mughal Garden, University of Delhi. College participated in approximately 15 categories of different flower species.





**8. Swachhta Sarthi Fellowship Scheme, Government of India:** Under the guidance of committee members, student volunteers are participating in this scheme for ‘Waste to Wealth Mission’. Environment committee volunteers are participating in the Swachhta Sarthi Fellowship scheme of Office of Principal Scientific Advisor to the Government of India under its ‘Waste to Wealth Mission’. Once selected, students will be participating in this scheme for the period of 1 year and will be making some innovative and useful products using waste materials.



**9. International Mother Earth Day** was celebrated on the theme “Restore our Earth” on 22<sup>nd</sup> April’ 2021. Invited talks on ‘Protecting the Planet’ and “Ancient and Traditional water management systems in India” were organized as part of the webinar.


**INSTITUTE OF HOME ECONOMICS**  
 University of Delhi  
 Environment and Community Outreach Committee  
 in collaboration with Internal Quality Assurance Cell (IQAC), IHE

**Celebrating**  
**International Mother Earth Day -2021**  
**Webinar on**  
**Theme- Restore our Earth**  
**Keynote Speakers**

 <p><b>Dr. YOGESH A. MURKUTE</b>          HYDROGEOLOGIST          PG DEPARTMENT OF GEOLOGY          RTM NAGPUR UNIVERSITY          (CONFERRED WITH SHIKSHA          RATTAN PURASKAR-2011)</p> <p><b>Topic: Ancient and Traditional water management systems in India</b>          @ 12:00PM-1:00 PM</p>	 <p><b>Dr Ram Boojh</b>          CEO          MOBIUS FOUNDATION          EX./HEAD UNESCO          SOUTH ASIA OFFICE,          NEW DELHI          (ENVIRONMENT AND          SUSTAINABILITY PROFESSIONAL)</p> <p><b>Topic: Protecting the Planet</b>          @ 11:00 AM-12:00 PM</p>
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**JOIN US ON APRIL 22ND, 11:00AM-1:00 PM**  
**Link to Join : [meet.google.com/dza-nyrn-sfj](https://meet.google.com/dza-nyrn-sfj)**  
 E-Certificates will be provided to all the participant's

**Patron**  
**Prof. Geeta Trilok Kumar**  
 Director, Institute of Home Economics  
**Organising Committee**

Dr. Pratima Singh, Convenor Dr. Rachna Kapila, Co-Convenor Dr. Charu Gupta Dr. Manjula Suri Dr. Sunayana Dr. Pragyaa Singh	Ms. Kavita Sagar Dr. Shantanu Maandal Ms. Shobha Mandal Dr. Vidhu Yalav Dr. Sneha Abhishek
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10. **World Environment Day** was celebrated on 5<sup>th</sup> June 2021. Following activities were organized as part of celebrations”-

- Mass pledge campaign to protect environment
- Poster and slogan writing competition
- Demonstration on application of an antimicrobial finish on facemask
- Invited talk on “Indoor Air Quality- An Overview”

**INSTITUTE OF HOME ECONOMICS**  
**University of Delhi**

**Environment and Community Outreach Committee**

In Collaboration With  
**National Service Scheme**

*Cordially invites you to celebrate*

**World Environment Day**  
**5<sup>th</sup> June 2021**  
**Ecosystem Restoration**

**List of Activities**

- ✓ Webinar on Environment
- ✓ Workshop on- Application of an antimicrobial finish using neem, clove and tulsi on a mask
- ✓ Result declaration of Poster Making & Slogan Writing Competition
- ✓ Mass Pledge campaign by IHEians to ‘Protect My Environment’

**E-certificate will be provided to all participants**

**Patron**  
**Prof. Geeta Trilok-Kumar**  
**Director, Institute of Home Economics**  
**Organizing Committee**

Dr. Pratima Singh, Convenor	Dr. Shantanu Mandal
Dr. Rachna Kapila, Co-Convenor	Ms. Kavita Sagar
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Dr. Manjula Suri	Dr. Sneha Abhishek
Dr. Sunayana Nath	Dr. Vidhu Yadav
Dr. Pragya Singh	