
**Report on E-Poster making competition on E-Poster making competition on
“Plastic Waste Recycling, Application and Future Prospects for a Sustainable
Environment**

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**Report on
E-Poster making competition on
“Plastic Waste Recycling, Application and Future Prospects for a Sustainable
Environment”
Organized by
(Social Responsibility Club)
Department of Computer Science and Engineering**

Plastic is a versatile material used in various applications due to its durability, lightweight nature, and ability to be moulded into different shapes and sizes. Common uses include packaging films, wrapping materials, containers for shopping and storing fluids, clothing, toys, household and industrial products. Its broad range of applications makes it an integral part of daily life.

On average, global plastic production exceeds 150 million tonnes per year. It is estimated that approximately 70% of plastic packaging products are converted into plastic waste in a short span of time. According to reports from the Central Pollution Control Board (CPCB) for 2017-18, India generates approximately 9.4 million tonnes of plastic waste per year, this means 9,400 tonnes of waste per day. Out of this total, approximately 5.6 million tonnes are recycled while 3.8 million tonnes are left uncollected or littered.

There are several effective measures that can be implemented to reduce plastic waste worldwide. These include the implementation of single-use plastic ban's, the use of taxes and economic incentives to encourage waste reduction, the establishment of product standards to reduce plastic content and improve recyclability, and the adoption of extended producer responsibility programs to hold producers accountable for the end-of-life management of their products. Additionally, individuals can reduce plastic waste by avoiding single-use plastics, buying in bulk, using sustainable food storage, shopping at farmers' markets, and recycling plastic waste properly.

The Social Responsibility Club of Department of Computer Science and Engineering, Integral University has taken the initiative to raise awareness about common societal issues that are often overlooked. On **June 5, 2023**, Nine students participated in an E-Poster making competition to further this cause.

The event was successfully organized under the guidance of Mrs. Kavita Agarwal, Head of CSE, Event Convenor:- Dr. Sheeba Parveen, and Mrs. Nudrat Fatima, Faculty Adviser:- Dr. Faiyaz Ahmad, Student Coordinators:- Darakshan Khan, Anushka Gupta, Subham Pandey, Abdullah Noor, Rehan Khan.

Some well-designed posters that are thought-provoking and have the ability to inspire reflection and realization:-

SAVE THE EARTH

SUSTAINABLE ENVIRONMENT BY PLASTIC WASTE RECYCLING



APPLICATION OF PLASTIC WASTE

The application of plastic waste in different sectors, such as construction, fuel production, wastewater treatment, electrode materials, carbonaceous nanomaterials. Emerging techniques for plastic waste management include microwave-assisted conversion, plasma-assisted conversion, supercritical water conversion.

THE PROCESS OF RECYCLING PLASTIC

1. Collection: The first step is collecting the plastic material that is to be recycled.
2. Sorting: After plastics are collected and transported to a recycling facility, the next step is sorting.
3. Washing: The third step involves washing the plastic to remove any impurities.
4. Reaming: The fourth step involves reaming the plastic by shredding or granulating it into smaller pieces.
5. Identification and separation: The fifth step involves identifying and separating different types of plastics.
6. Compounding: The final step involves melting the plastic and reforming it into new products.



SUBHAM PANDEY
CSE4-2100103316

Live a Zero-Waste Life


Simple Steps for a Greener Future



- Refuse single-use plastics, such as straws and shopping bags.
- Bring your own reusable containers for takeout and leftovers.
- Choose products made from sustainable materials, such as bamboo and glass.
- Plant a garden or support local agriculture to reduce food miles.
- Choose clothes made from natural, biodegradable fibers, such as cotton and linen.

SUBHAM PANDEY
CSE4-2100103316

Plastic Waste Recycling for a Sustainable Environment



ANUSHKA GUPTA
CSE3-3rd Year

WE NEED TO REDUCE PLASTIC POLLUTION

SOME KEY FACTS:

- Plastic takes more than 450 years to decompose.
- Less than 10% of the plastic used around the world is recycled.
- 12 million tons of plastic are poured into the ocean every year.

Waste Segregation: Why & how?

Plastic, paper and metal can be reused and sold to scrap dealers for recycling.

Organic waste can be composted.

The amount of waste that goes to landfill site is reduced considerably.



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Please refer to the attached image to access the video created by our Social Responsibility Club, which aims to raise awareness and inspire action on this important topic:-



INTEGRAL UNIVERSITY
LUCKNOW (INDIA)

Social Responsibility Club
of
Department of Computer Science & Engineering
INTEGRAL UNIVERSITY

E-poster making competition on "Plastic Waste Recycling, Applications, and Future Prospects for a Sustainable Environment"

www.iul.ac.in **INSPIRING EXCELLENCE**

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With Regards,

Kavita Agrawal
Head, Deptt of CSE
Chairperson, Women's study center
Integral University, Lucknow, India