



**DELHI TECHNOLOGICAL UNIVERSITY**  
*Formerly, Delhi College of Engineering*  
Govt. of NCT of Delhi  
Shahbad Daulatpur, Main Bawana Rd., Delhi - 110042



## REPORT

**Event Name:** Awareness Program on “International Day of Zero Waste”  
**Date of Event:** 30.03.2026  
**Venue:** Seminar Hall, Third Floor, Dept. of Env. Sci. & Engg., DTU  
**Organizer:** Department of Environmental Science & Engineering, Delhi Technological University in association with Paryavarnam-DTU  
**Participants:** 67

The poster features the Delhi Technological University logo at the top left and the Paryavarnam logo at the top right. The central text reads "AWARENESS PROGRAM ON 'INTERNATIONAL DAY OF ZERO WASTE'" in white and yellow on a dark blue background, with the date "30<sup>th</sup> MARCH, 2026" below it. On the left, Prof. Prateek Sharma is listed as Chief Patron, and Dr. Geeta Singh is listed as Chairperson. On the right, Sh. Ashish Jain is listed as Speaker, and Mr. Anunay Gour is listed as Coordinator. The bottom section states "Organized by Department of Environmental Science & Engineering, DTU" and "In collaboration with Paryavarnam DTU". The event time is "03:00 PM onwards" and the location is "SEMINAR HALL, 3<sup>rd</sup> Floor, Dept of Env. Sci. & Engg, DTU (LW4-TF1A)".

### *Introduction*

The Department of Environmental Science & Engineering, Delhi Technological University, in association with Paryavarnam-DTU, organized an **Awareness Program on “International Day of Zero Waste”** on 30th March 2026.

The program featured an expert session by **Ashish Jain**, Founder-Director of the Indian Pollution Control Association, who shared his extensive experience in solid waste management and environmental sustainability.

The session aimed at promoting awareness regarding sustainable waste practices, institutional responsibilities, and the transition towards a **zero-waste campus ecosystem**.

## ***Objectives of the Programme***

- To create awareness about **solid waste generation in India and Delhi**
- To understand the role and responsibilities of **Bulk Waste Generators (BWGs)** under SWM Rules, 2026
- To promote **source segregation and scientific waste management practices**
- To encourage adoption of **zero-waste strategies** within the campus
- To sensitize students towards **circular economy and sustainability principles**

## ***Relevance***

The programme aligns with the following NAAC criteria:

### **Criterion 3: Research, Innovations and Extension**

- Promotes awareness through expert-led environmental outreach
- Encourages sustainable waste management practices

### **Criterion 2: Teaching-Learning and Evaluation**

- Facilitates experiential and applied learning through expert interaction

### **Criterion 7: Institutional Values and Best Practices**

- Promotes environmental consciousness and sustainability
- Encourages waste minimization and circular economy practices

### **Extension Activity / Outreach Initiative**

- Enhances student engagement in contemporary environmental issues

## ***Key Highlights of the Program***

The session delivered by **Sh. Ashish Jain** was highly insightful and practice-oriented, focusing on real-world challenges and solutions in solid waste management.

### **1. Status of Solid Waste in India and Delhi**

The speaker provided a comprehensive overview of the **growing solid waste crisis** in India, particularly in urban areas like Delhi. He highlighted issues such as:

- Increasing per capita waste generation
- Overburdened landfills
- Lack of segregation at source

- Environmental and health impacts

## 2. Bulk Waste Generators (BWGs) under SWM Rules, 2026

It was emphasized that institutions like Delhi Technological University are classified as **Bulk Waste Generators (BWGs)**.

The speaker explained the criteria:

- Built-up area  $\geq 20,000$  sq. m
- Water consumption  $\geq 40,000$  litres/day
- Waste generation  $\geq 100$  kg/day

He stressed that BWGs must:

- Ensure **segregation at source**
- Establish **on-site waste processing systems**
- Work with authorized recyclers and agencies

## 3. Understanding Waste Streams at DTU

The speaker elaborated on the **complex waste streams generated in large campuses** like DTU:

- **Organic Waste:** 40–60%, suitable for composting and biogas
- **Dry Recyclables:** Valuable materials like paper, plastic, and metal
- **Sanitary Waste:** Requires careful and hygienic disposal
- **Hazardous Waste:** Chemicals needing safe handling
- **E-Waste:** Must be processed through authorized channels
- **C&D Waste:** Recyclable in construction activities
- **Reject Waste:** Requires scientific disposal

## 4. Importance of Waste Audit and Baseline Assessment

He emphasized conducting **waste audits** to:

- Understand quantity and composition
- Identify inefficiencies
- Develop targeted waste management systems

## 5. Source Segregation – The Foundation

A **4-stream segregation model** was strongly recommended:

- Wet waste
- Dry waste
- Sanitary waste
- Domestic hazardous waste

The speaker highlighted that **segregation at source is the most critical step** towards achieving zero waste.

## 6. Practical Approaches Towards Zero Waste

Drawing from field experience, the speaker suggested:

- Composting and bimethanation units
- Material Recovery Facilities (MRFs)
- Reduction of single-use plastics
- Awareness and behavioral change programs

## 7. Management of Low-Value Plastic Waste (MLP)

A key focus of the lecture was on **multi-layered plastic (MLP)** waste:

- Challenges in recycling due to mixed composition
- Need for structured supply chains
- Role of Extended Producer Responsibility (EPR)

## 8. Innovative Recycling Solutions

The speaker presented real-world examples of **MLP waste utilization**, such as:

- Road construction
- Plastic lumber and boards
- Sustainable building materials

These examples demonstrated the **circular economy potential of waste materials**.

## 9. Interactive Discussion

The session was highly interactive, with students and faculty engaging in discussions on:

- Implementation challenges in institutions
- Feasibility of zero-waste campuses
- Career opportunities in environmental management

## *Participation and Outcome*

The event witnessed participation of **67 students, faculty members, and research scholars**.

### **Learning Outcomes:**

- Enhanced understanding of **waste management regulations and practices**
- Awareness of **institutional responsibilities as BWGs**
- Improved knowledge of **segregation and recycling systems**
- Motivation to adopt **zero-waste practices**

## ***Sustainable Development Goals (SDGs) Alignment***

### **SDG 11: Sustainable Cities and Communities**

- Focus on efficient solid waste management

### **SDG 12: Responsible Consumption and Production**

- Emphasis on waste reduction and recycling

### **SDG 13: Climate Action**

- Reduction of landfill emissions

### **SDG 6: Clean Water and Sanitation**

- Prevention of environmental contamination

### **SDG 17: Partnerships for the Goals**

- Collaboration between academia and environmental organizations

### **SDG-Based Outcome**

- Strengthened awareness of sustainability practices
- Increased engagement in environmental initiatives
- Promotion of responsible waste management behavior

## ***Conclusion***

The awareness program was highly informative and impactful. The expert lecture by **Sh. Ashish Jain** provided valuable practical insights into solid waste management and zero-waste strategies.

The program successfully reinforced the role of institutions like Delhi Technological University as responsible Bulk Waste Generators and inspired participants to contribute towards a **sustainable and zero-waste future**.

# Glimpses of the Event:

