



## **Solid Waste Management:**

### **Collection of Degradable and Non-Degradable Waste:**

Degradable waste includes organic materials that can be broken down naturally by microorganisms.

Sources in College:

- Food Waste: Leftovers from dining halls, cafes, and snack bars.
- Yard Waste: Landscaping debris, grass clippings, and leaves from college grounds.
- Paper Products: Unused paper, cardboard boxes, and non-coated paper from classrooms and offices.

### **Collection Strategies:**

1. Separate Bins: Implement clearly labeled bins for composting food scraps and other organic materials in dining areas and common spaces.
2. Education Campaigns: Organize awareness programs to inform students and staff about composting and its benefits.

### **Non-Degradable Waste in College**

Non-degradable waste consists of materials that do not break down naturally or take a very long time to decompose.

### **Sources in Colleges:**

- Plastics: Bottles, containers, and wrappers from campus stores.
- Metals: Aluminum cans from beverages and food packaging.
- Electronic Waste: Old computers, batteries, and other tech equipment.

### **Collection Strategies:**

1. Recycling Programs: Establish separate recycling bins for plastics, metals throughout the campus. Make sure they are easily accessible and clearly marked.
2. Awareness Initiatives: Run campaigns to educate the campus community about the importance of recycling and the proper disposal of non-degradable waste.



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## Transportation of Solid Waste for Decomposition:

Transportation of solid waste for decomposition, often through processes like composting or anaerobic digestion, is a crucial part of effective waste management. Here some aspects of this process:

### Steps in Transportation

**Collection:** Solid waste is typically collected from various sources, including residential, commercial, and industrial areas. This is often done through scheduled pickups by waste management services.

**Segregation:** Before transportation, waste is often sorted into different categories (e.g., organic, recyclable, hazardous) to facilitate appropriate processing later on.

**Transportation Vehicles:** Specialized vehicles designed for solid waste transport are used. These can vary in size and type, from compactors to open-top trucks, depending on the waste type and destination.

**Destination:** The waste is transported to facilities equipped for decomposition, such as composting sites or anaerobic digestion plants.





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## ***Liquid Waste Management:***

Waste Liquid Flow Connected to Natural Drain:

Connecting waste liquid flow to a natural drain, such as a river, creek, or wetland, involves various considerations related to environmental impact, legal regulations, and proper management practices. Here are some points to understand about this practice:

Types of Waste Liquids:

- o Industrial Effluents: Wastewater from manufacturing processes that may contain pollutants.
- o Domestic Sewage: Wastewater from households, including greywater (from sinks, showers) and blackwater (from toilets).





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### **E-waste Management:**

E-waste includes discarded electrical and electronic devices, such as computers, laptops, printers, smartphones, and laboratory equipment such as battery cells and useless electronic devices, are given away to scrap dealers twice a year. Periodic checking is done to ensure the proper disposal of non-working electronic items. Vaagdevi college of engineering encourages all the departments and specific student NSS, NCC and others to organize events and training sessions that will bring about positive environmental changes.

### **Collection and Transportation:**

- E-waste is gathered from various sources, including households, businesses, recycling centers, and manufacturers. It's crucial to have designated collection points or events to properly gather discarded electronics.

### **Sorting and Dismantling:**

- Once collected, e-waste is sorted by type, often based on its components (e.g., TVs, mobile phones, computers). Devices are dismantled to separate valuable metals (such as gold, silver, copper) and hazardous materials (such as batteries, cathode ray tubes, or circuit boards).





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