University Waste Management and Treatment Policy

1. Introduction

In alignment with the university's commitment to promoting sustainable development, maintaining a clean and safe campus environment, and applying the principles of responsible resource management, this policy establishes a comprehensive framework for the management and treatment of all types of waste in a scientific, safe, and environmentally responsible manner.
The policy ensures compliance with national environmental regulations and international standards on waste management and sustainability.

2. Objectives

This policy aims to:

- Minimize waste generation at the source through the adoption of sustainable consumption and eco-friendly alternatives.
- Promote a culture of waste segregation, reuse, and recycling across the university.
- Ensure the safe and proper disposal of all waste types to protect human health and the environment.
- Achieve operational efficiency in waste management through a unified and integrated system.
- Enhance environmental awareness among all university stakeholders — students, faculty members, staff, and workers.

3. Scope of Application

This policy applies to all university facilities and operations, including:
Colleges and laboratories, the university hospital, student housing, administrative buildings, cafeterias, green areas, and workshops.

4. Classification of Waste

University waste is classified as follows:

- Paper waste: documents, cardboard, printed materials.
- Plastic waste: bottles, cups, containers, and office plastic items.
- Organic waste: food leftovers, plant leaves, and garden waste.
- Inorganic waste: metals, glass, and construction debris.
- Toxic and hazardous materials: chemicals, batteries, oils, paints.
- Laboratory waste: residues from chemical and biological experiments.
- Medical waste: hospital-generated waste (syringes, bandages, samples).
- Electronic waste: computers, phones, monitors, cables.
- Animal remains: from research and experimental laboratories.

5. Waste Minimization at the Source

The university adopts the principle of pollution prevention and waste minimization at the source by:

- Promoting the use of digital laboratories and simulations to reduce material consumption.
- Implementing electronic and paperless administrative systems.
- Reducing single-use plastics and replacing them with reusable alternatives.
- Applying sustainable procurement practices that minimize packaging and waste generation.
- Encouraging faculty and students to develop research and innovation projects that contribute to waste reduction.
- Monitoring environmental performance indicators annually to assess progress in minimizing waste generation.

6. Collection and Segregation Mechanisms

- Provide color-coded and clearly labeled bins for each waste type throughout the campus.
- Train staff on source segregation and enforce safety standards during waste handling.
- Transfer waste periodically to centralized collection points within the campus for further processing or disposal.

7. Treatment and Disposal Methods

- Reuse and Recycling:
  - Collect paper, plastic, and metal waste for delivery to certified recycling companies.
  - Reuse organic waste to produce compost for use in the university's green spaces.
- Special Treatment of Hazardous and Medical Waste:
  - Deliver such waste to licensed companies for thermal or chemical treatment.
  - Dispose of animals remains safely in accordance with environmental and health regulations.
- Electronic Waste:
  - Classify and separate reusable components before delivery to certified e-waste recyclers.
- Non-Recyclable Waste:
  - Collect and transfer to sanitary landfills in cooperation with relevant government authorities.

8. Safety and Preventive Measures

- Require all cleaning and waste-handling personnel to wear personal protective equipment (PPE) such as gloves, masks, and protective footwear.
- Ensure temporary storage of hazardous waste in designated, secure areas.
- Conduct regular training sessions on safe handling of waste and chemicals.

9. Monitoring and Evaluation

- Establish a Permanent Committee for University Waste Management that includes representatives from faculties, the hospital, and administrative departments.
- Issue quarterly and annual reports evaluating performance and identifying improvement opportunities.
- Utilize Information and Communication Technology (ICT) systems to track waste quantities, types, and treatment processes.

10. Awareness and Participation

- Conduct regular awareness campaigns on waste reduction, segregation, and recycling.
- Engage students in environmental initiatives and research projects related to waste management.
- Publish annual sustainability reports to promote transparency and environmental responsibility.

11. Final Provisions

- This policy shall be reviewed annually to evaluate its effectiveness and update it according to environmental and technological developments.
- The policy is binding on all university stakeholders, and each department or unit is expected to comply within its scope of responsibility.

University President

Prof. Dr. Mamdouh Ghorab

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