



**University of
Technology**

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E-WASTE MANAGEMENT

UNIVERSITY OF TECHNOLOGY

Electronic Waste Management Framework

The University of Technology has established a comprehensive Electronic Waste Management system addressing the growing challenge of obsolete electronic equipment and devices. This program ensures environmentally sound disposal of electronic waste while complying with E-Waste Management Rules and promoting responsible technology consumption.

E-Waste Generation Sources

- Academic and Administrative Equipment
- Computer Systems: Desktops, laptops, servers, and peripherals
- Laboratory Equipment: Scientific instruments, analyzers, and testing devices
- Communication Devices: Phones, printers, scanners, and networking equipment
- Audio-Visual Systems: Projectors, screens, sound systems, and display units
- Infrastructure and Maintenance Equipment
- Air Conditioning Systems: Refrigeration equipment and components
- Electrical Equipment: UPS systems, batteries, and power supplies
- Lighting Systems: Fluorescent tubes, LED fixtures, and electronic ballasts
- Security Systems: Cameras, access control devices, and monitoring equipment
- Personal Electronic Devices
- Student Devices: Mobile phones, tablets, and personal computers
- Faculty Equipment: Personal and institutional electronic devices
- Donation Programs: Community e-waste collection initiatives



E-Waste Collection and Segregation

- Collection Infrastructure
- Designated Collection Points: Secure storage areas for different e-waste categories
- Scheduled Collection Drives: Regular campus-wide e-waste collection events
- Departmental Coordination: Faculty and staff training for proper e-waste handling
- Student Awareness Programs: Educational initiatives promoting responsible e-waste disposal
- Segregation Protocols
- E-waste receives classification based on material composition, hazard potential, and recycling requirements. Categories include ferrous metals, non-ferrous metals, precious metals, plastics, glass, and hazardous components requiring specialized handling.
- Documentation and Inventory
- Comprehensive records track e-waste generation, collection quantities, and disposal destinations. This documentation ensures regulatory compliance while providing data for waste reduction planning and vendor accountability.

Compliance and Environmental Impact

- Regulatory Compliance
- The e-waste management program adheres to E-Waste Management Rules 2016 and subsequent amendments. Regular documentation and reporting ensure compliance with Extended Producer Responsibility (EPR) requirements and state pollution control board regulations.



- Environmental Benefits



- Resource Conservation: Material recovery reduces virgin resource extraction
- Pollution Prevention: Proper disposal prevents soil and water contamination
- Energy Recovery: Metal recycling requires less energy than primary production
- Landfill Diversion: Electronic components avoid improper landfill disposal

