

Pengurusan E-Waste di UTeM

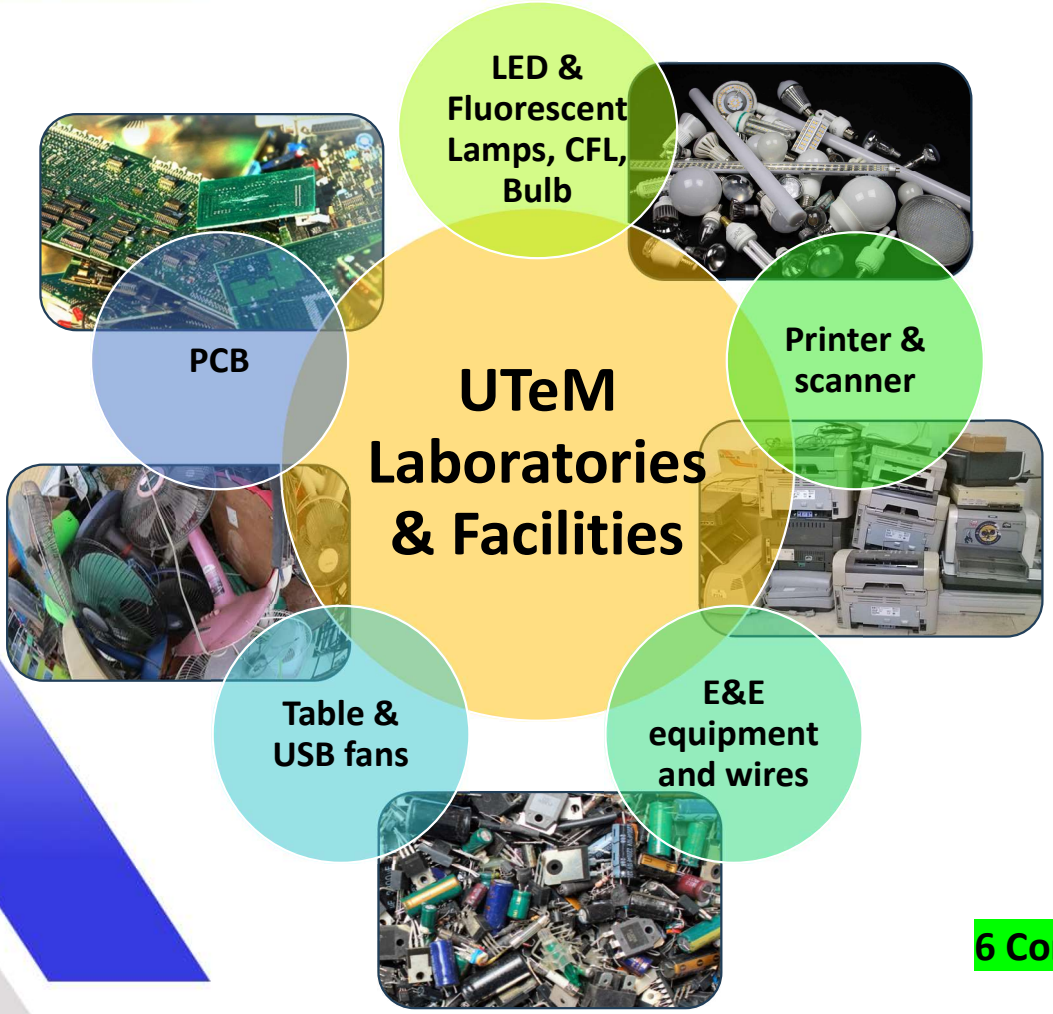
PUSAT ALAM SEKITAR PINTAR (CENSEi), UTeM

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Penyelaras Sisa, CENSEi/ Pensyarah Kanan, FKP

CePSWaM

Type of E-Waste in UTeM





6 Controlled Items as Referred to Jabatan Alam Sekitar (DoE)

DoE: Department of Environment, Ministry Of Natural Resources, Environment and Climate Change, Malaysia

E-Waste Specific Regulation, Policies and Guideline



1. Akta Kualiti Alam Sekeliling 1974 (Akta 127), Peraturan-Peraturan Kualiti Alam Sekeliling (Buangan Terjadual) 2005. Jabatan Alam Sekitar, Malaysia

2. Polisi Pengurusan Sisa Pepejal Dan Buangan Terjadual Di Universiti Teknikal Malaysia Melaka (UTeM) 2016

3. Surat Pekeliling Kewangan Bilangan 18 Tahun 2021, Universiti Teknikal Malaysia Melaka: Syarikat Panel Pelupusan Aset Bagi Kaedah Jualan Sisa Dan Ewaste

4. Mekanisma Pengurusan E-waste di Malaysia. Jabatan Alam Sekitar, Malaysia

Objective of E-Waste Management in UTeM

From Linear Economy to Circular Economy



- ✓ Reduced and Efficient Use of Raw Materials
- ✓ Increase Economy and Landfill Lifespan
- ✓ Avoid Hazardous Impact to Environment

PENGURUSAN SISA DI UTeM

Polisi Pengurusan Sisa Pepejal Dan Buangan Terjadual Di Universiti Teknikal Malaysia Melaka (UTeM) 2016

Sisa/Buangan Pepejal

Mengenalpasti & Pengasingan

Kontraktor Pembersihan

Guna Semula

Kitar Semula

Pengasingan Barangan Kitar Semula

Jualan sisa



Buangan Terjadual

77 Jenis Buangan Terjadual
Code: SW1- SW5

SW404 Sisa Klinikal

Selain kod SW404 & SW110*

Barang persendirian/ selain inventori-aset universiti

***SW110 E-Waste**

*E-Waste Status **ASET/INVENTORI UNIVERSITI**
Rujuk: **Surat Pekeliling Kewangan Bilangan 18 Tahun 2021** : Syarikat Panel Pelupusan Aset Bagi Kaedah Jualan Sisa Dan Ewaste

E-Waste Management: Sustainable Mechanisms



TYPE 1: Management Mechanisms for E-Waste of University Inventory-Asset

TYPE 2: Management Mechanisms for E-Waste Except University Inventory-Asset

TYPE 3: Management Mechanisms for Individual E-Waste

Workflow of E-Waste Management :
1) E-Waste of University Inventory-Asset

General Workflow

UTeM responsibility

Generation of E-Waste → **Faculty/ Department approval** → **Panel company assessment and payment** → **E-Waste Storage** → **E-Waste Collection & Transportation** → **E-Waste Partial Recovery & Full Recovery Facilities** (licensed by DoE)

- ❖ Typical types of E-Waste: PC equipment, laptop, printer, others E&E Inventory and Asset
- ❖ The identification and declaration processes of the E-Wastes.

- ❖ The identified E-Wastes have to be approved by the faculty/department management for the E-Waste disposal process.

- ❖ All the E-Wastes have to store according to the safe practice and at the areas/rooms allocated by the office.
- ❖ The E-Waste have to striped off the university inventory/ asset labels and located the appropriate and secured area.

- ❖ Only the licensed contractor (licensed by DoE) can handle the packaging and transportation processes for recovery procedure.
- ❖ University will ensure only the non-expired licensed contractor is being appointed.







DoE: Department of Environment, Ministry Of Natural Resources, Environment and Climate Change, Malaysia

Workflow of E-Waste Management:
2) E-Waste EXCEPT University Inventory-Asset

UTeM responsibility

Generation of E-Waste → **Sorting & Segregation** → **E-Waste Storage** → **E-Waste Packaging & Collection** → **E-Waste Transportation** → **E-Waste Partial Recovery & Full Recovery Facilities** (licensed by DoE)

- ❖ Typical types of E-Waste: LED & fluorescent lamps, CFL, bulb, PCB, wires
- ❖ All the E-Wastes need to register (declare) by following the Malaysia's Regulation under the Malaysia Department of Environment (DoE) and UTeM's policy
- ❖ The identification and classification of the E-Wastes wastes need to be done before storing process.

- ❖ All the E-Wastes have to store according to the safe practice of storage guidelines as referred to Regulation under the Department of Environment (DoE).

- ❖ Only the licensed contractor (licensed by DoE) can handle the packaging and transportation processes for recovery procedure.
- ❖ University will ensure only the non-expired licensed contractor is being appointed.

- ❖ Consignment note will be received by the licenced (by DoE) Treatment & Disposal Facility regarding the E-Wastes have been partial or full recovery according to the Malaysia's Regulation.









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Workflow of E-Waste Management:
3) Individual E-Waste

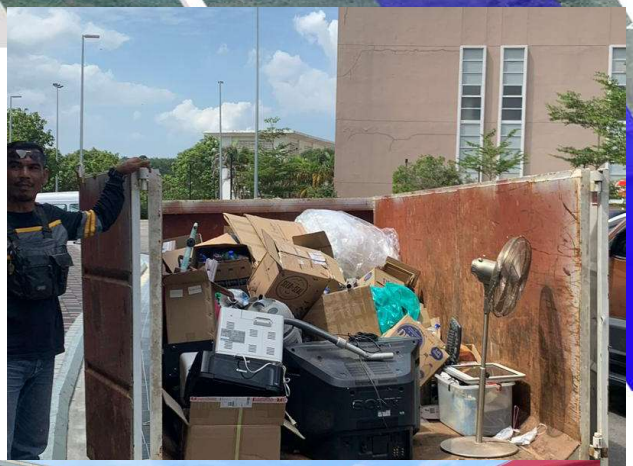
UTeM responsibility

Generation of E-Waste → **E-Waste Storage for Individual** → **E-Waste Transportation** → **E-Waste Partial Recovery & Full Recovery Facilities** (licensed by DoE)

- ❖ Typical types of E-Waste: Stand & table fans, PC equipment, laptop, mobile phone, personal printer
- ❖ The identification and classification of the E-Wastes wastes need to be done before storing process.
- ❖ E-Waste collection from university events/programs.

- ❖ All the E-Wastes have to store according to the safe practice of storage guidelines and at the dedicated E-Waste storage

- ❖ University will ensure only the authorised contractor is being appointed for collection.









DoE: Department of Environment, Ministry Of Natural Resources, Environment and Climate Change, Malaysia



Terima Kasih

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