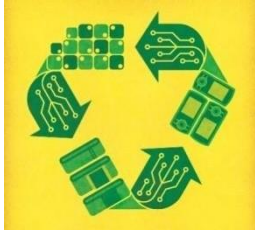# E- WASTE MANAGEMENT
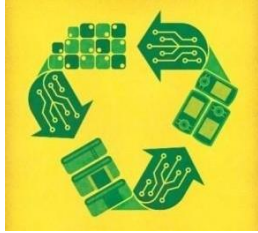

Policy Document

MAHARAJA INSTITUTE OF TECHNOLOGY MYSORE

Belawadi, Srirangapatna Taluq, Mandya Dist – 571 477
Web Site: www.mitmysore.in

E-WASTE MANAGEMENT

Policy Document

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AFFILIATED TO,

VISVESVARAYA TECHNOLOGICAL UNIVERSITY (VTU), BELAGAVI

PREFACE

E-waste management committee of Maharaja Institute of Technology Mysore is established to minimize generation of e-waste, prevent and control e-waste and provide guidelines for e-waste management. The committee functions with the core objectives of upholding and uplifting the mission of the institute.

The members of the committee carry out functions that are relevant within the scope of the committee by continuously monitoring and enforcing the guidelines drawn by the committee.

The E-waste management Policy Document touches upon the principles, scope, implementation and ways and means of upholding the objectives set by the E-waste management committee for the institute.

To give direction in managing the E-waste in the institute, this policy document will serve as guide to the committee as well as to its stakeholders.

To make this Policy document relevant, it is recommended that this work be reviewed and be revised periodically as the need arises.

MR. CHETHAN KUMAR D S   DR. T VASUDEV   DR. B G NARESH KUMAR
Member Secretary   *Chairman*   *Principal*

DECLARATION

I am happy to learn that the members of the E-waste management committee of Maharaja Institute of Technology Mysore have spelt out the functional procedure in the form of "Policy Document". I congratulate members headed by the chairman in this regard. Further they have taken initiatives to ensure that the e-waste is responsibly disposed-off through the proper authorized outlets with the appropriate MoU.

I, hereby declare that E-waste management committee policy document is right in all aspects and deem fit for actual practice in the auxiliary E-waste management functions the institute and hence all aspects compiled in this document be whole heartedly accepted and followed by all the stake holder of the institute with effect from __/__/____.

DR. B G NARESH KUMAR

PRINCIPAL

DATE: __/__/____

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1. INTRODUCTION

The Maharaja Institute of Technology (MIT), an institute under Maharaja Education Trust located in a campus near Mysore city (3.5 Km from Ring Road). The institute is founded by a group of eminent people recognized for their eminence in the field of science and engineering technology. Many of them have served at the highest levels of AICTE and University. The college is equipped with all modern learning aids to make teaching-learning process a pleasure. The highly qualified staff is its asset. The college has to its credit the highest number of admissions in the academic year 2007-08 among the 16 newly opened engineering colleges in Karnataka.

MIT Mysore has various labs, such as, State of the art computer labs, electronics and communication engineering labs, machine shops, concrete labs, etc to name a few. Faculty and staff at MIT clearly understand that there are obsolescence and technology upgradations on a constant basis in all of these labs. Of course, with these upgradation and obsolescence, we create older equipment which need proper disposal and management. In order to sustain its focus of global excellence and nurture continual improvement, MIT Mysore acknowledges the need for proper E-waste handling and disposal. To meet this, an E-waste policy is devised for MIT Mysore. The policy focuses to minimize the generation of E-waste, prevent and control E-waste, provide guidelines for E-waste management.

1.1. ELECTRONIC WASTE

Electronic waste, also known as E-waste, is electronic products that have outlived their usefulness and are due for disposal. These products have toxic components such as lead, mercury and cadmium. Improper disposal of electronic waste pollutes the environment with hazardous toxins, thereby causing widespread health problems and environmental degradation.

Modernization and urbanization have led to the development of new technologies and high demand for electronic products in daily life. With the increasing demand coupled with rapid economic growth ends up with the massive generation of electronic wastes or E-wastes. E-wastes are the electronic products which have been discarded by their owners after end of life. Moreover, replacement of new modified models is also adding a huge quantity of e-products to the stream of wastes. With the increase of e-waste generation and the consequent threat of environmental degradation, there is need for a regulatory framework to mitigate this hazard. Environmental

contamination can be minimized by practicing safer and more responsible methods of e-waste disposal including recycling of the waste.

Maharaja Institute of Technology (MIT) Mysore utilizes a wide range of electronic products such as computers, PCBs, Wires and cables, Air Conditioners, CROs, power supplies, laboratory equipment and trainer kits, CRT monitors etc., which results in E-waste over the time. Thus, there is a need of devising E-waste management policy for the institution.

2. E-WASTE POLICY PRINCIPLES

The following are the guiding principles of the e-waste policy:

1. Environmental conservation – The Institution endeavors to ensure environmental conservation and protection from the effects of e-waste.

2. Safe disposal – The Institution recognizes the need to dispose e-waste in a manner that is safe and sound with respect to its staff, students, institutional operations and stakeholders.

3. Public awareness – The Institution acknowledges the importance of an informed society in the sustainable management of e-waste.

4. Policy framework – The Institution recognizes the need to establish clear guidelines on e-waste management.

3. OBJECTIVES OF THE POLICY

In developing this e-waste policy, MIT Mysore seeks to meet the following objectives:

i.   To minimize e-waste generation.

ii. To mobilize and sensitize stakeholders on the proper management and handling of e-waste on a sustainable basis.

iii. To develop and implement a critical human resource base knowledgeable in handling e-waste.

iv. To develop beneficial environmentally sound e-waste recycling.

v.   To provide guidance on the standards of electronic equipment that is imported into the institution.

4. SCOPE OF THE POLICY

This policy covers MIT Mysore campus, faculties, directorates, departments and sections. It also covers all electronic equipment and devices and e-waste resultant from staff and students' activities within the institution.

This policy covers and is informed by the following elements: legal framework and environmentally sound management of e-waste, awareness and information dissemination and resource mobilization.

4.1. LEGAL FRAMEWORK

The E-waste management policy is underpinned by *E-waste Management Rules, 2016*, as indicated by the govt of India.

4.2. ENVIRONMENTALLY SOUND MANAGEMENT OF E-WASTE

Environmentally sound recycling refers to recycling without leading to adverse impact on environment and health. Environmentally sound e-waste management shall be achieved through the following measures:

1. E-waste sound recycling in authorized/centralized areas.
2. Ensure use of environmentally sound technologies to maximize recovery and minimize waste generation.
3. Appropriate technologies for recycling to be sourced.
4. Training and skills development to be encouraged for using environmentally safe operations in handling e-waste.

5. E-WASTE POLICY IMPLEMENTATIONS

The E waste policy implementation is carried out through E-waste management committee constituted by the institution.

5.1. E-WASTE MANAGEMENT COMMITTEE

The E-waste management committee shall:

1. Identify e-waste in the Institution.

2. Ensure that e-waste is collected at the end of every semester and kept in an appropriate storage.

3. Take the approval of recommendations of the Disposal Committee.

4. Execute the recommendations of the Disposal Committee and prepare a report for the Institution Management.

5. Review inputs from all stakeholders.

6. Monitor the implementation of this policy and advise institution management as appropriate.

7. Advise review/improvement of this policy from time to time.

5.2. STAFF AND SKILLS

The Institution shall facilitate development of skills requisite for the implementation of E-waste management operations. The staff shall be provided with the requisite instructions and procedures, equipment and devices for e-waste management operations.

5.3. COMMITTEE MEMBERS AND HIERARCHY

S/L	NAME AND DESIGNATION	HIERARCHICAL POSITION
1	**DR. T VASUDEV,** *Professor, Department of MCA and Dean - Administration*	Chairman
2	**DR. SHARATH KUMAR Y H,** *Professor and Head, Department of Information Science and Engineering*	Member
3	**PROF. ASHWIN H M,** *Assistant Professor, Department of Master of Computer Applications*	Member
4	**PROF. HONNARAJU B,** *Associate Professor, Department of Computer Science and Engineering*	Member
5	**PROF. SIDDANNA JANNAI,** *Assistant Professor, Department of Electronics and Communication Engineering*	Member
6	**MR. CHETHAN KUMAR D S,** *System Administrator*	Member Secretary

6. MONITORING, EVALUATION AND REVIEW STRATEGIES

6.1. MONITORING AND EVALUATION

Realization of the output of this policy shall require consistent monitoring and evaluation of the output indicators. The Government and any other relevant stakeholders will carry out monitoring and evaluation at different levels. A monitoring and evaluation framework shall be developed to ensure midterm review of the policy.

6.2. REVIEW OF POLICY

A Policy review committee is being set up at the college level which is chaired by the Principal to ensure that we are up to date on the changes as and when required, either by law, or by E-waste requirements. This policy if not reviewed with in a period of five years, will have a mandatory review at the end of five years.

7. CONTINUUM

To ensure the strategic interests of the Institution and its global vision, this e-waste management policy is laid down. Establishment of e-waste management infrastructure, awareness and education, human resource development and resource mobilization are some of the key strategies encompassed by this policy document. The policy also provides the guidelines for environmentally sound e-waste management.

Further the college has Memorandum of Understanding signed with E-waste recycling units for disposal of the same so that there is no accumulation of such waste at the college level.