



## AWARENESS PROGRAM ON E-WASTE MANAGEMENT

E-waste Management is a process to collect e-waste, and recover and recycle material by safe methods. Dispose of e-waste by suitable techniques reduces its adverse impacts on the environment. The awareness program was conducted in various schools across Mysore by students of ATMECE.

The event was convened by **Dr. Bhagyashree S R**, Chairperson, Women Cell, Dear Research, Professor ECE Department, ATME College of Engineering, Mysuru. The program was convened in association with Inner wheel Mysuru.

The program aims to create effective awareness on multiple levels (of society) to reduce the adverse impact on the environment and health

E-waste is closely linked to **Goal 3** (Good health and Well-being), **Goal 6** (Clean water and Sanitation), **Goal 11** (Sustainable Cities and Communities), Goal 12 (Responsible Consumption and Production), **Goal 14** (Life below Water), and **Goal 8** (Decent Work and economic growth) of **SUSTAINABLE DEVELOPMENT GOALS**



### SUSTAINABLE DEVELOPMENT GOALS



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## GHS KUMBAR KOPPAL GOVT-SCHOOL, MYSURU



On 14/12/2024, the Women Cell of ATME COLLEGE OF ENGINEERING Convened a Programme at KARNATAKA PUBLIC SCHOOL, KUVEMPUNAGAR, MYSURU in association with the INNER WHEEL CLUB OF MYSORE.



**GOVERNMENT HIGHER PRIMARY SCHOOL, KUVEMPU NAGAR**



**GOVERNMENT HIGH SCHOOL, KUVEMPU NAGAR**





**OFFICE BEARERS OF INNER WHEEL ALONG WITH CHAIRPERSON,  
WOMEN CELL, ATMECE**

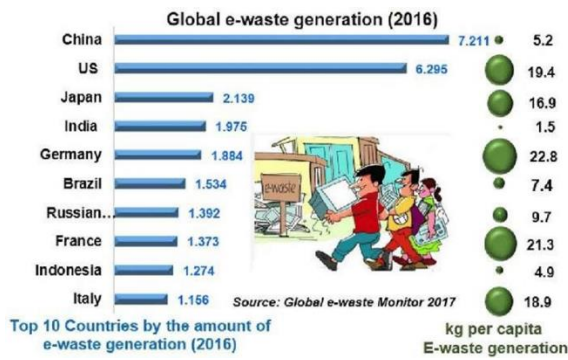
The event commenced with a brief introduction of the resource persons. The resource persons gave a brief introduction on the various electronic goods, the life cycle of is Electronic Goods, definition and description about E-waste., the statistics of Global E-waste and India`s position in that.



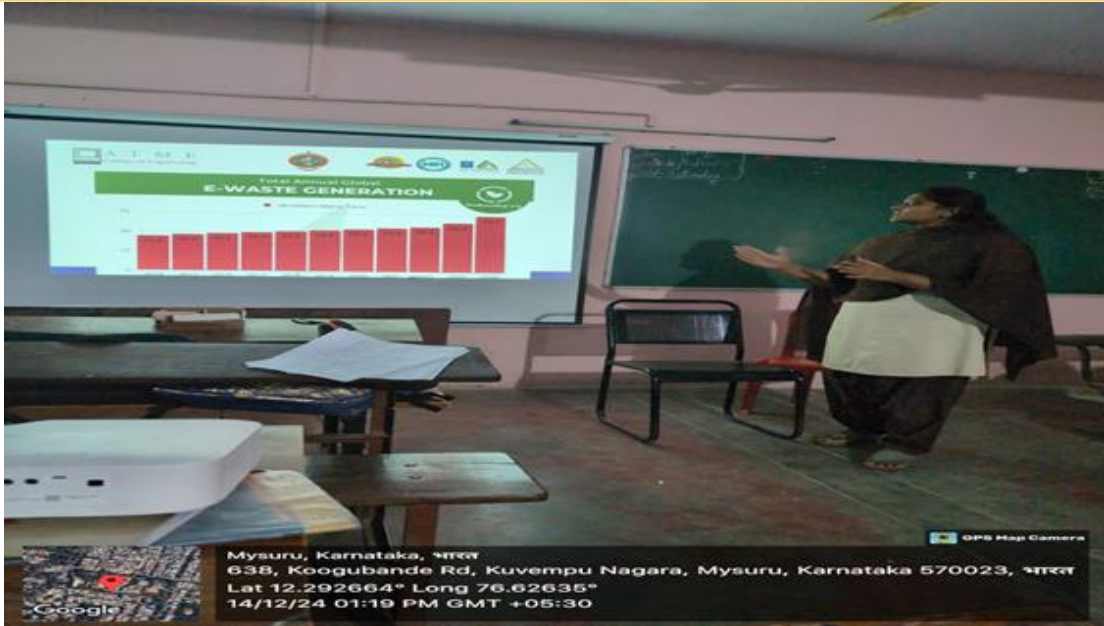
**THE IMPORTANCE OF E-WASTE MANAGEMENT IS EXPLAINED BY DR.  
BHAGYASHREE S R, CHAIRPERSON, WOMEN CELL ATMECE  
KARNATAKA PUBLIC HIGHER PRIMARY SCHOOL, KUVEMPUNAGAR.**



**VARSHA STUDENT OF ATMECE GIVING PRESENTATION ABOUT E WASTE TO STUDENTS OF HPS**





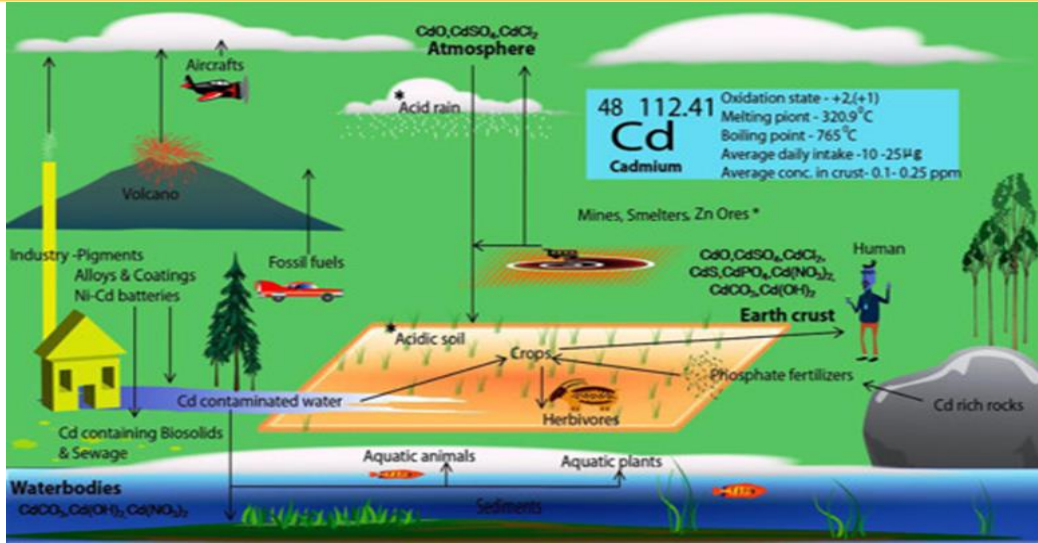


### THE STATISTICS OF E-WASTE GENERATION EXPLAINED BY MANOGNA K V, STUDENT OF ATMECE

The E-waste generated across the various places in the nation, the ill effects caused by the E-waste to the health and to the environment.

#### Effects of E-Waste on the environment:

- **Soil Contamination:** Improper disposal can lead to the leaching of toxic substances like lead, mercury, and cadmium into the soil, affecting plant growth and potentially entering the food chain.
- **Water Pollution:** Chemicals from e-waste can contaminate groundwater and surface water, harming aquatic ecosystems and posing risks to human health.
- **Air Pollution:** Burning e-waste to recover materials releases harmful emissions, including dioxins and furans, which can cause respiratory issues and other health problems.
- **Loss of Biodiversity:** Contaminated land and water can harm local wildlife, disrupting ecosystems and reducing biodiversity.
- **Greenhouse Gas Emissions:** The manufacturing and disposal processes associated with e-waste contribute to greenhouse gas emissions, exacerbating climate change.



## Effects of E-Waste on the human body:

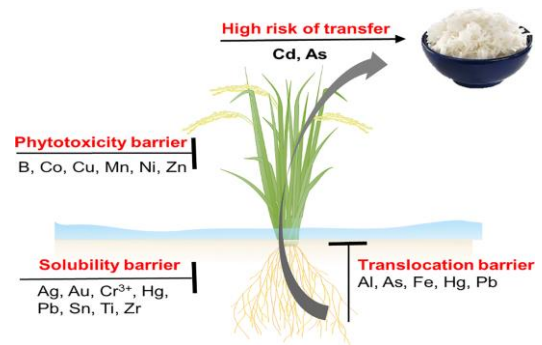
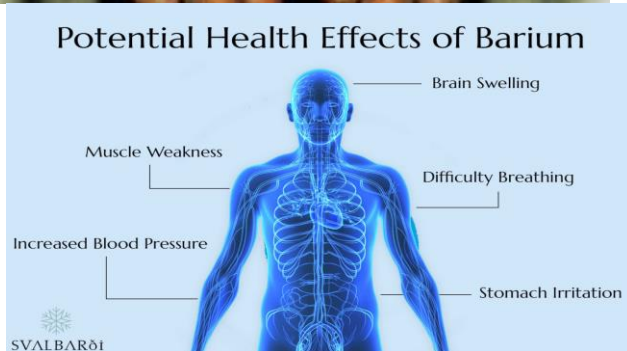
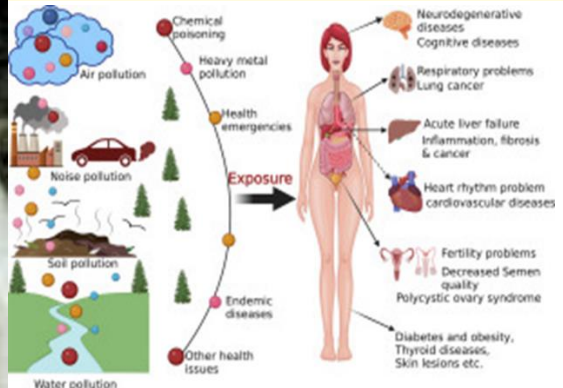
### Effect of arsenic on human

- **Cancer:** Arsenic is a known human carcinogen that can cause skin, lung, bladder, kidney, and liver cancer.
- **Skin lesions:** Long-term exposure to arsenic can cause skin lesions, such as dark spots (hyper pigmentation) and thickened skin (hyperkeratosis).
- **Respiratory issues:** Arsenic exposure can cause chronic cough, chest sounds, shortness of breath, and blood in sputum.



**Fall of Roman Empire due to lead consumption**





## Efforts to reduce e-waste globally:

Students were told about the need to reduce e-waste and the measures to be taken to reduce the E-e-waste globally, namely Regulatory Frameworks, Extended Producer Responsibility, Recycling Programs, Awareness Campaigns, Repair and Refurbishment Initiatives, Innovation in Recycling Technologies, International Agreements, and Circular Economy Practices.

## Benefits of Recycling:-

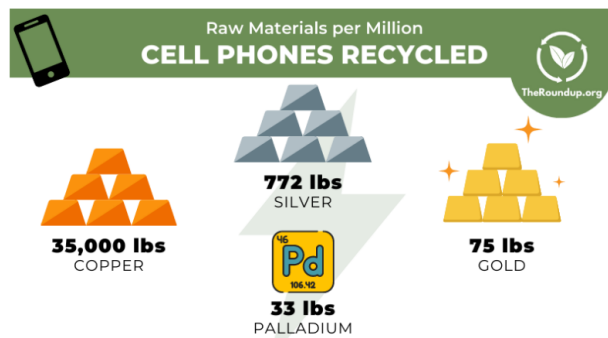


**NETRAVATHIV STUDENT OF ATMECE IS GIVING PRESENTATION TO THE CHILDREN OF HPS**



Students were also told about the benefits of recycling E-waste which included the following points.

- Helps to keep toxins out of nature by reducing the need for landfill.
- Parts of discarded electronics can be used to make new ones saving energy and earth's natural resources.
- Prevent pollution by reducing the emissions of greenhouse gases due to incineration.
- Several precious metals like gold, silver, copper, bauxite etc. can be extracted and reused.



**OFFERING A MEMENTO TO THE TEACHER OF THE HIGH SCHOOL**





**OFFERING A MEMENTO TO THE TEACHER**



**GIVING A PRIZE TO THE WINNER TEACHER OF THE HIGHER PRIMARY SCHOOL OF THE QUIZ CONDUCTED**

### **Conclusion:**

In conclusion, effective e-waste management is vital for tackling environmental and health issues from discarded electronics. By leveraging public awareness, regulations, and technology, India can build a strong e-waste management system.

Addressing challenges like the informal sector, poor infrastructure, and toxic materials is essential. Collaborative efforts among government, industry, and the public are needed to encourage responsible practices and promote a circular economy.

A comprehensive approach will help reduce e-waste impacts while supporting economic growth and environmental sustainability. Creating such an awareness program will benefit society at large.